From:	Boeing Employee
To:	Boeing Employees
CC: Sent:	2/26/2013 12:48:44 PM
Subject:	RE: Synthetic Airspeed
Attachments:	737 Unreliable airspeed version 25 .pdf
This is the latest dr	aft; however, we are far from validating this as the final version of the Airspeed Unreliable
CHECKIIST.	
Critical Action, Mer	the telecon today, an introduction of synthetic airspeed to the MAX would drastically alter this mory Item Non-Normal Checklist. If synthetic airspeed is standard as opposed to an option, it lize the Program directive to maintain Level B training for our customers.
I've included	who is the lead Tech Pilot for the MAX.

Luras on the MAY	Systems SAM call today to liston to the proposal for the pay I ADIRI I for the MAY and
	Systems SAM call today, to listen to the proposal for the new I-ADIRU for the MAX, and was brought up. First I had heard of it, so I mentioned the above to the group.
Thank you,	
737 Technical Pilot	j
~ Desk	
j~ Mobile	
	BOEING EDOCE
BOEING	BOEING EDGE Flight Services
From: Boeing Em Sent: Tuesday, Feb To: Boeing Employed Subject: Synthetic	ruary 26, 2013 10:36 AM
Do you have a cop I've seen that one y	y of what the 737's Airspeed Unreliable checklist will be as a result of the SRP? I don't think yet.
	e to implement synthetic airspeed on the 737, particularly since it doesn't have so the need to be different from the 787.
Flight Deck Crew C	Operations Operations

From:	Boeing Employee
To:	Boeing Employees
CC:	Boeing Employee
Sent:	11/21/2014 10:30:18 AM
Subject:	
Attachments:	Debriefing Questions Boeing Only.docx; Debriefing Questions.docx
Hi all,	
and the second s	phics questions that I plan to start the debrief with. This is considered the minimum set, and more details on their answers, depending on what they say.
	ows an outline of what questions are to be asked of each condition. For the no-RCAS showing them details of RCAS after their flight and ask about their perceptions of its design
any alerting that they for might show a signification	ng Only has questions that we plan to ask of the no-RCAS group about their expectations for eel might have helped in the events. It is Boeing Only because the answers they provide nt deviation from the current RCAS design, and we don't want to indicate to the FAA that our ilot expectations (esp since the pilot responses are naïve and our design has been vetted in
Let me know of any ac	dditional questions you think should be asked,
Flight Deck Human Facto	ors and Ergonomics
Boeing Commercial Airp	lanes
(office)	
(work cel	1)

From:	Boeing Employee
To: Sent: Subject:	Boeing Employee 7/23/2014 7:43:31 PM RE: RCAS testing of training
manufacturer's min tr	the box we're painted into with the Level B training requirements. Remember, this is just the aining required. Operators can elect to make the training more robust. at I'm being pressured into complying with.
737 Chief Technical P Desk Mobile	ilot BOEING ED CE
From: Boeing Employee Sent: Wednesday, July To: Boeing Employee	Flight Services
Subject: RE: RCAS tes	sting of training
reliant on automation	
From: Boeing Employe Sent: Tuesday, July 22 To: Boeing Employee Subject: RE: RCAS tes	2, 2014 8:27 PM
engine out operations changes. The path fo pointing the crews to Level B. We need to	regy with Level B, and the ROLL/YAW ASYMETRY will most likely be seen frequently during as as people don't have the plane in trim when coupling the autopilot and make speed/config brward we determined in flt tech was to only have a condition statement, with the training the FCTM guidance regarding proper trim technique. This is the path with the least risk to a sell this as very intuitive basic pilot skill. That the alert is just drawing your attention to the nat's our only chance of Level B.
thanks,	
(Manager Andrews Andre	

737 Chief Technical Pilot
~ Mobile
BOEING BOEING EDGE Flight Services
From: Boeing Employee Sent: Tuesday, July 22, 2014 1:46 PM To: Boeing Employee Subject: RE: RCAS testing of training
I would think that the NNCs should provide some guidance to the pilots. Many will need to be told to enter rudder trim or aileron input to correct the condition of which they have been informed.
From: Boeing Employee Sent: Thursday, July 17, 2014 4:11 PM To: Boeing Employee Subject: RE: RCAS testing of training
Here's the RCAS NNCs. Let me know if you need them cleaned up to look exactly as they will in the QRH.
We're a month or so away from the FCOM maneuvers guidance, if we give any. Still need to sort that out.
We need to point out that the autopilot saturation alerts means you should do trim the airplane per the FCTM guidance.
For the roll arrow, I think we just include it as systems information, it won't be part of the upset recovery just an extra tool to do it correctly.
Thanks,
737 Chief Technical Pilot ~ Desk ~ Mobile BOEING EDGE Flight Services
From: Boeing Employee

Sent: Wednesday, July 16, 2014 1:43 PM
To: Boeing Employee
Subject: RE: RCAS testing of training

We have set a goal of having a preliminary version of the CBT available at the end of October. We will take the checklists and the FCTM guidance materials at your convenience.
Flight Training Development
Boeing Flight Services
Seattle Campus Phone
Phone:
LJ
SCIENTIA EST VIRTUS
From: Boeing Employee Sent: Thursday, July 10, 2014 11:22 AM To: Boeing Employee Subject: RCAS testing of training Importance: High
If I get your guys the 2 checklists for autopilot saturation (ROLL/YAW ASYMMETRY and ROLL AUTHORITY), and the FCTM guidance we expect pilots to know for use of rudder/aileron trim, and you get access to the NG CAB with that functionality, what is the shortest possible time from both of those happening that a basic version of the CBT could be produced for use in a human factors study/evaluation of the effectiveness of the training? It doesn't have to be perfect, but fairly representative of the training we expect to provide for these 2 alerts.
I'm ramping up the engineers and human factors folks to do a study to prove to the FAA that no greater than level B is needed for RCAS. We already have the data for the roll arrow, just need these 2 other pieces of RCAS.
Please let me know ASAP.
thanks,
737 Chief Technical Pilot ~ Desk ~ Mobile
BOEING BOEING EDGE Flight Services

From:	Boeing Employee
To: Sent:	Boeing Employee 12/18/2014 12:28:37 PM
Subject:	RE: Tomorrow
	lose Level B which will be thrown squarely on my shoulders. It was yes! Who illions of dollars! Burn him at the stake! Oh well, someone will have to pay
would be happy for	hat will drastically cripple our group, especially for the FCOM/QRH development work. I and it would be great to have him as our boss, but we'll be hurting to lose and ar would SERIOUSLY suck.
Oh well, we'll get through	gh whatever challenges we face. GET 'ER DONE!
737 Chief Technical Pil	ot
() BOEING	BOEINGEDGE
	Flight Services
From: Boeing Employee To: Boeing Employee Subject: Re: Tomorrow	ber 18, 2014 12:24 PM
	paid to keep you in the group worked!
After the MAX is don	ne you'll be able to write your own ticket.
Sent from my Blackl	Berry 10 smartphone.
From: Boeing Employe Sent: Thursday, Decem To: Boeing Employee Subject: RE: Tomorrow	iber 18, 2014 12:03 PM
Sounds good, cya tom	orrow.
FYI, I'm not getting the	2 nd interview, so you're stuck with me
737 Chief Technical Pil	ot
~ Desk ~ Mobile	
Ø BOEING	BOEING EDGE Flight Services

Sent: Thursday, December 18, 2014 10:52 AM

To: Boeing Employee |
Subject: Tomorrow

Printed more SEA 16L charts.

Taking a few vacation hours to bang out some Christmas shopping. See you in the morning.

737 MAX Procedures Manager |
Flight Technical & Safety |
Desk |
Mobile |

BOEING EDGE |
Flight Services

Boeing Employee

From:

From:	Boeing Employee	
To:	Boeing Employee	
Sent:	5/1/2015 7:08:53 AM	
Subject:	RE: Concerns with Training Development proposal for MAX	
·		
acknowledged there is the flat panel trainer are	discussion with TD and the larger team, I am fine with the path some risk to the new style of training, but it shouldn't be a show alleviated, only by the fact that they must develop some sort oidable, it is a risk we must live with for level B differences co	w stopper. My concerns with of device for the full transition
Thank you,		
737 Chief Technical Pilo		
- Desk	t .	
~ Mobile		
# # # # # # # # # # # # #		
Ø BOEING	BOEING EDGE Flight Services	
From: Boeing Employee Sent: Tuesday, April 21, To: Boeing Employee Subject: Re: Concerns v	2015 11:00 AM with Training Development proposal for MAX	
Thanks,		
Please let me know	vhat you think after you visit with	
Best,		
Chief Pilot - Boeing F Mobile	Flight Services	
Executive Assistant		
From: Boeing Employee Sent: Tuesday, April 21, To: Boeing Employee Subject: RE: Concerns v	2015 11:50 AM with Training Development proposal for MAX	
	chat. I think we'll just sit and listen to the latest pitch tomorrow	

argument for them to do so, but that doesn't mean they won't try.
Thank you,
737 Chief Technical Pilot
~ Desk ~ Mobile
BOEING BOEING Flight Services
From: Boeing Employee
Sent: Friday, April 17, 2015 6:07 PM
To: Boeing Employee Subject: RE: Concerns with Training Development proposal for MAX
As you would expect, paints this in a very positive light, so he didn't really do much to highlight your
concerns.
What I would like would be for you to get together with and probably and/or o make sure that all of us in Flight are speaking with a common voice. Please include if you can.
Once you've got a common point of view from that group for Flight, feel free to run with that message.
Thanks,
From: Boeing Employee
Sent: Friday, April 17, 2015 1:56 PM
To: Boeing Employee Subject: Concerns with Training Development proposal for MAX
wanted me to coordinate with you and make sure you're ok with me highlighting my concerns with regards to Training Development's desired plan for Code 1 customer MAX training. I believe has already shared my concerns with you, but I want to make sure you are ok with me bringing them up at next Wednesday's meeting to discuss this topic.
My concerns are two-fold.
First I have concerns with moving away from a predominantly CBT-based training course, which has been the

the AEG potentially trying to force us to use it as part of the NG to MAX differences course. There's no rational

Boeing standard for many years, back to an Instructor-led course. While I agree with this in principle, the fact is, we're dealing with new regulators in both the AEG and the Miami TCPM offices, so attempting to certify the MAX course for initial type certification carries with it unnecessary risk. The AEG in particular has been very difficult to deal with thus far as you know.

Second, I am concerned with the development of these DTTs for the training. I know is selling these as only required for the Code 1 full transition course, but I fear the old Field of Dreams adage of, "If you build it, they will come". In other words, I fear the AEG will find out we have these great interactive desk top trainers and try and mandate them for use in the NG to MAX differences course, which we have a contractual obligation to to ensure the training does not exceed greater than 2 days of Level B (CBT) differences training. While this argument has no logical basis from the AEG's perspective, thus far in our negotiations we have seen many instances where logic and reason do not prevail with the AEG.

I intend on raising this with the group at next Wednesday's meeting, unless you would like me to stay silent on the topic. I realize the training development is outside my swim lane, but it certainly can impact my negotiations with the regulators.

Thank you,	
737 Chief Technical P	ilot
~ Desk ~ Mobile	1
Ø BOEING	BOEING EDGE Flight Services

	Boeing Employees
To:	Doding Employees
Sent:	8/18/2016 8:11:57 AM
Subject:	RE: MAX Differences Training approved at Level B!!!!!
<u>}</u>	
being developed AEG to re-write it	Il be less than 4 hours. We don't define times in the FSB, only the training level. The FSB is in the near future. There is a new FSB format, and we'll be working collaboratively with the to include incorporation of the MAX into it. The draft won't be ready until after type cert in the working to be done by the end of the year.
OSD report. The	ted the FAA/TCCA's findings, so the EASA requirement will be the same, as written into their CAAC has already said they'll accept the FAA's findings. We'll probably have to go to other d the world to jedi-mind trick them into accepting the FSB findings, but that shouldn't be hard.
737 Chief Technica	al Pilot
BOEIR	
From: Boeing I	Employee Employee
From: Boeing I Sent: Thursday, 7 To:	
From: Boeing I Sent: Thursday, To: Subject: RE: MA Got it - thanks. Nother final FSB dra	Employee August 18, 2016 7:54 AM @boeing.com>;
From: Boeing I Sent: Thursday, To: Subject: RE: MA Got it - thanks. Nother final FSB dra been passed? Also, what are the	Employee August 18, 2016 7:54 AM @boeing.com>; X Differences Training approved at Level B!!!!! Ionetheless, it is 1-training-day (union and non-union alike – haha). Is the training 'footprint' if stage (1-training day)? Is the FSB report in the public comment stage or has that already e details on the EASA report? Same/more/less?? Are there any issues with JCAB or TCAC
From: Boeing I Sent: Thursday, / To: Subject: RE: MA Got it - thanks. N the final FSB dra been passed? Also, what are the we need to know	Employee August 18, 2016 7:54 AM @boeing.com>; X Differences Training approved at Level B!!!!! Ionetheless, it is 1-training-day (union and non-union alike – haha). Is the training 'footprint' if stage (1-training day)? Is the FSB report in the public comment stage or has that already e details on the EASA report? Same/more/less?? Are there any issues with JCAB or TCAC
From: Boeing I Sent: Thursday, / To: Subject: RE: MA Got it - thanks. N the final FSB dra been passed? Also, what are the we need to know	Employee August 18, 2016 7:54 AM @boeing.com>; @boeing.com> X Differences Training approved at Level B!!!!! Ionetheless, it is 1-training-day (union and non-union alike – haha). Is the training 'footprint' if stage (1-training day)? Is the FSB report in the public comment stage or has that already e details on the EASA report? Same/more/less?? Are there any issues with JCAB or TCAC?? I be in touch soon with more understanding of details. This is a big part of the operating cost roduct marketing decks, and is at the heart of \$\$\$\$ anaylses.
From: Boeing I Sent: Thursday, I To: Subject: RE: MA Got it - thanks. N the final FSB dra been passed? Also, what are the we need to know Thanks I'll structure in our p	Employee August 18, 2016 7:54 AM @boeing.com>; @boeing.com> X Differences Training approved at Level B!!!!! Ionetheless, it is 1-training-day (union and non-union alike – haha). Is the training 'footprint' if stage (1-training day)? Is the FSB report in the public comment stage or has that already e details on the EASA report? Same/more/less?? Are there any issues with JCAB or TCAC?? I be in touch soon with more understanding of details. This is a big part of the operating cost roduct marketing decks, and is at the heart of \$\$\$\$ anaylses.
From: Boeing I Sent: Thursday, 7 To: Subject: RE: MA Got it - thanks. Nother final FSB dra been passed? Also, what are the we need to know thanks I'll structure in our postructure in	Employee August 18, 2016 7:54 AM @boeing.com>;
From: Boeing I Sent: Thursday, 7 To: Subject: RE: MA Got it - thanks. Nother final FSB dra been passed? Also, what are the we need to know Thanks I'll structure in our po Again, NICE JOE From: Boeing En Sent: Wednesda	Employee August 18, 2016 7:54 AM @boeing.com>; @boeing.com> X Differences Training approved at Level B!!!!! Ionetheless, it is 1-training-day (union and non-union alike – haha). Is the training 'footprint' if tstage (1-training day)? Is the FSB report in the public comment stage or has that already e details on the EASA report? Same/more/less?? Are there any issues with JCAB or TCAC?? I be in touch soon with more understanding of details. This is a big part of the operating cost roduct marketing decks, and is at the heart of\$\$\$ anaylses. B!! mployee y, August 17, 2016 1:43 PM
From: Boeing I Sent: Thursday, 7 To: [Subject: RE: MA Got it - thanks. N the final FSB dra been passed? Also, what are the we need to know Thanks I'l structure in our p Again, NICE JOE From: Boeing Er Sent: Wednesda To: [August 18, 2016 7:54 AM @boeing.com>; @boeing.com> X Differences Training approved at Level B!!!!! Ionetheless, it is 1-training-day (union and non-union alike – haha). Is the training 'footprint' if the stage (1-training day)? Is the FSB report in the public comment stage or has that already endetails on the EASA report? Same/more/less?? Are there any issues with JCAB or TCAC?? If be in touch soon with more understanding of details. This is a big part of the operating cost roduct marketing decks, and is at the heart of \$\infty\$ \$\$\$ anaylses. Inployee Y, August 17, 2016 1:43 PM @boeing.com> @boeing.com>
From: Boeing I Sent: Thursday, 7 To: Subject: RE: MA Got it - thanks. Nother final FSB dra been passed? Also, what are the we need to know Thanks I'll structure in our po Again, NICE JOE From: Boeing En Sent: Wednesda	Employee August 18, 2016 7:54 AM @boeing.com>; @boeing.com> X Differences Training approved at Level B!!!!! Ionetheless, it is 1-training-day (union and non-union alike – haha). Is the training 'footprint' if tstage (1-training day)? Is the FSB report in the public comment stage or has that already e details on the EASA report? Same/more/less?? Are there any issues with JCAB or TCAC?? I be in touch soon with more understanding of details. This is a big part of the operating cost roduct marketing decks, and is at the heart of\$\$\$ anaylses. B!! mployee y, August 17, 2016 1:43 PM

@boeing.com>	
Subject: RE: MAX Differences Training approved at Leve	el B!!!!!
The training is running under 3 hours. We will make som hours (call it less than 4 if you want to be conservative). were identified by the regulators. That's the whole point of	No special currency issues or formal checks of any sort
737 Chief Technical Pilot	
From: Boeing Employee	
Sent: Tuesday, August 16, 2016 3:43 PM	
To: @boeing.com>;	@boeing.com>
Cc: @boeing.com>;	
@boeing.com>;	@boeing.com>;
@boeing.com>;	@boeing.com>;
@boeing.com>	* Laboration and the second se
Subject: RE: MAX Differences Training approved at Leve	el BIIIII
Hey,	
RIGHT ON!! So the devil is in the details: Do we have 1-And, just to confirm, there are absolutely no formal check and MAX you can be away from an NG for 30-years a Yep, those are the details us product marketing twits need	ss? And, no functional currency issues between NG and still be able to jump into a MAX? LOVE IT!!
CONGRATS to you and your MAX team, I reme from flight training, technical, & standards (as we were cawhen the FAA had come down with their provisional approximately approximate	alled in those days) went out and got really DRUNK
THEN, we got really DRUNK when the JAA (now EASA)	approvals came in!!
GOOD on you all!!	
CONGRATS!!	
and the BCA Product Marketing Team	
From: Boeing Employee	
Sent: Tuesday, August 16, 2016 2:48 PM	
To: @boeing.com	>; [@boeing.com>;
@boeing.com>;	@boeing.com>;
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Cc: @boeing.com>; @boeing.com>; @boeing.com>; @boeing.com>; @boeing.com>;	@boeing.com>; @boeing.com>; @boeing.com>;[
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@boeing.com>; @boeing.com>;	@boeing.com>;
@boeing.com>;	,
	@boeing.com>;
	(Legisland)
Subject: MAX Differences Training approved at Level B!!!!! Importance: High	
All,	
I'm happy to inform you that we successfully passed the T-3 D establishing the 737MAX as the same type rating as the 737N (Computer Based Training, CBT) differences training between	G, and requiring no greater than Level B
This is provisional approval, pending final Part 25 Type Certific changes to the airplane. The FAA will be sending us a Provisi documenting the Joint Flight Operations Evaluation Board acc and EASA are now considered to have accepted this Level B of	onal Approval letter within the next 2 weeks, eptance of this finding. FAA, Transport Canada,
This culminates more than 3 years of tireless and collaborative Technical, Flight Technical Data, Training Development, Flight Flight Test Engineering and of course selection is Engineering their efforts in getting us to the finish line.	
CAS Communications and 737 Program Communications are receipt of the FAA's provisional approval letter.	jointly crafting a BNN article to be released upor
Thank you again for all your collective support.	
737 Chief Technical Pilot	

From:	Boeing Employees
Го:	Boeing Linployees
Sent: Subject:	6/5/2017 8:02:55 PM RE: 737 MAX ATB/RTL FOTB
Velcome to my world	, the never-ending nightmare
37 Chief Technical Pilo	t
BOEING	
From: Boeing Emp Sent: Monday, June 0 Fo: Subject: RE: 737 MA	05, 2017 8:02 PM @boeing.com>
am sorry to hear tha	t.
From: Boeing Employ Sent: Monday, June 0 Fo: Subject: RE: 737 MA	05, 2017 8:01 PM @boeing.com>
m putting out fires wi	
37 Chief Technical Pilo	
From: Boeing Emplo Sent: Monday, June C To: Subject: RE: 737 MA	oyee _ 05, 2017 7:59 PM
COULD ASK YOU T	
From: Sent: Monday, June 0	

To:	@boeing.com>	
Subject: RE: 737 MAX ATB/RT	L FOTB	
Why are you still working at 8pm	???? STOP!!!	
737 Chief Technical Pilot		
737 Chier rechnical Pilot		
() BOEING		
(LEBETINE		
From: Boeing Employee		
Sent: Monday, June 05, 2017 7:	57 PM	
То:	@boeing.com>;	@boeing.com>
Cc: Subject: RE: 737 MAX ATB/RT	<u>@boeing.com</u> >;	<u>@boeing.com</u> >
odbjedt. NE. 707 MI/OCNI BINT	LIGIB	
Thank you		
From: Boeing Employee		
Sent: Monday, June 05, 2017 7:	56 PM	
To:	@boeing.com>;	
@boeing.con	<u>@boeing.com</u> >;	@boeing.com>
Subject: RE: 737 MAX ATB/RT		
The 220pm time temperature value	ent via calandar invita works for	ma Lacconted
The 230pm time tomorrow you s	erit via caleridar irivite works for	me. Taccepted.
737 Chief Technical Pilot		
757 Cilier recililical Filot		
() BOEING		
& BULING		
From: Boeing Employee		
Sent: Monday, June 05, 2017 5:	13 PM	
To:	@boeing.com>;	@boeing.com>
Cc:	<u>@boeing.com</u> >;	@boeing.com>
Subject: RE: 737 MAX ATB/RT	LFOIB	
Hello		
I am looking at scheduling a meeting have reviewed the bulletin, and have		e Aero staff and some Floe Staff as we speak. We d in a meeting situation.
I have a hard time finding an openin to this discussion I would like to sch		wants to delegate? Since Flight Technical is essentia
Hello,	Neuri paraganga	

Thank you,		
From: Boeing Employee		
Sent: Monday, June 05, 2017 5:01 PM	1	
To:	@boeing.com>	
Subject: RE: 737 MAX ATB/RTL FOT		
Subject. ILL. 191 MAX ATB/INTETOT	Ь	
How is your FOTB review coming? Do	vou have an estimate o	as to when you will have a response? There are
		he asked everyone review it, but does it make
		ne other FLOE people? Or do you think the will all
want to do their own mark-up version		
From: Boeing Employee		
Sent: Friday, June 02, 2017 3:43 PM		
To:	boeing.com>;	@boeing.com>;
	@boeing.com>;	@boeing.com>;
	@boeing.com>	
Cc:	A Parallel Control of the Control of	ng.com>;
@boeing.com>;		@boeing.com>;
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@boeing.com>; '	77	@boeing.com>;
@boeing.com>;		@boeing.com>
Subject: RE: 737 MAX ATB/RTL FOT	В	
oudjourna. For minorina annia i o		
].		
i		
I have reviewed and made commen	nts in the attached cop	by of the draft, some of which should address the
CS-AWO 2.5% gradient implication the	at and I realized e	earlier today. We still have some other people
		kup. It might help to accept most of the large
changes and send a new draft out fo	or everyone to review, o	as I think we are all OK with the main points of the
FOTB and are trying to focus on the de	etails at this point. And t	they are a bit hard to see in this current markup
form.		
processing		
From: Boeing Employee		
Sent: Friday, June 02, 2017 3:33 PM		
To:	@boeing.com>;	@boeing.com>;
	@boeing.com>;	@boeing.com>;
The second secon	@boeing.com>	
Cc:	@boeir	ng.com>{
@boeing.com>;		@boeing.com>;
@boeing.com>;		@boeing.com>;
@boeing.com>;		@boeing.com>;
@boeing.com>;		@boeing.com>
Subject: RE: 737 MAX ATB/RTL FOT		

So Should I take that whole part out, or are you saying you're ok with it as written?

737 Chief Technical Pilot			
() BOEING			
PREINE			
<u></u>			
From: Boeing Employee			
Sent: Friday, June 02, 2017 12			
To: [@boeing.com>; @boeing.com>;	@boeing.com>; @boeing.com	1.
	@boeing.com>	<u>(@boeing.com</u>	1-,
Cc:	@boein	a com>:	
@boeing.com		@boeing.com>;	I
@boeing.co		@boeing.com>;	4
@boeing.com		@boeing.com>;	
@boeing.	***************************************	@boeing.com>	
Subject: RE: 737 MAX ATB/R	TL FOTB		
	Ga Shaka and Sanis	one of	
Another note from my perspec	tive after a recent chat with	}	
What might not be clear here is	s what OPT is actually checking	g with our go-around check on the enroute landi	ng
		nented to satisfy the EU-OPS (once again renan	_
		that operators ensure that airplanes can meet a	
		ished by the airport authorities. This option sits	on
		b limits and, as you can imagine, is more limitin	
		dopted EU-OPS requirements, but note that we	0
		it's the only way then can check go-around	
performance at those airports t		it is the only way then can encor go around	
performance at those unports	nat are more chancinging.		
For those operators that elect r	not to implement the go-around	check, they would unaffected by the above	
	I have their normal approach an		
So mount about, out mount out	The state of the s		
<u> </u>			
From: Boeing Employee			
Sent: Friday, June 02, 2017 6:4	49 AM		
To:[@boeing.com>;	@boeing.com>;	
	l@boeing.com>;	@boeing.com	<u>)</u> >;
	@boeing.com>		
Cc:	@boein		
@boeing.com		@boeing.com>;	
@boeing.co		@boeing.com>;	
@boeing.com		@boeing.com>;	<u>.</u>
@boeing. Subject: RE: 737 MAX ATB/R		@boeing.com>	
Subject. RE. 737 MAX ATB/R	ILFOID		
Hi			
P			

I'm okay with it, including your recommendation to delete the sentence "None of these additional steps are required when using OPT."

<u> </u>	
From: Boeing Employee	
Sent: Thursday, June 01, 2017 4:09	PM
To:	r@boeing.com>;
	@boeing.com>;
Cc: [@boeing.com>;
@boeing.com>;	@boeing.com>;
@boeing.com>;	@boeing.com>;
Dboeing.com>;	@boeing.com>;
@boeing.com>	
@boeing.com>	
Subject: RE: 737 MAX ATB/RTL FO	OTB
agreed to, based on Flight Technical' least with EASA MAX customers) un need to get it to EASA customers so	have all s recommendations. It assumes that we elect to hold off on publishing this (a still we have both the 15/1 and 30/5 SPs approved with EASA. If we decide we coner, we can revisit and edit this as needed (i.e. remove reference to the 30/5, or maybe send out 2 separate FOTBs, one for EASA, one for everyone
	at need reviewed/answered, and please do review the deletions and additions gree with. Please everyone in the TO and CC line do this review.
I'll letdetermine when he wants	to have this review done by. Obviously the sooner the better.
Thanks all.	
737 Chief Technical Pilot	
From: Boeing Employee	
Sent: Thursday, June 01, 2017 11:05	5 AM
To:[@boeing.com>; @boeing.com>;
<u></u>	@boeing.com>;
@boeing.com	
Cc:	@boeing.com>;
@boeing.com>;	@boeing.com>;
@boeing.com>;	@boeing.com>;
@boeing.com>;	@boeing.com>;
[@boeing.com > Subject: 737 MAX ATB/RTL FOTB	
	yesterday's ATB/RTL discussion between Aero and Flight Technical. I have per the action items; I will send a follow-on note with more info.

From:	Boeing Employee
To: Sent:	@faa.gov; @faa.gov 2/9/2018 8:59:20 AM
Subject:	RE: Template question
Maybe can spear	head that effort on the 787-10!!!! Go Go!
	· 1
737 Chief Technical Pilot	
() BOEING	
& BUZING	
and the second s	aa.gov [mailto] @faa.gov]
Sent: Friday, February To:	@boeing.com>; @faa.gov
Subject: RE: Template	question
	w if I have the skills to jedi mind trick 280 until we have a lull in revision
	til the MAX evaluations are complete, we don't have a dog in that fight ence we have set already.
P	
Aviation Safety Inspector, C	Operations Specialist
FSB/FOEB Chair B-737 Seattle Aircraft Evaluation	
Seame And an Evaluation	Cirolip
We value your feedback and us know how we did.	I seek to improve the services we provide. Please take a few moments to visit the website shown below to let
	craft Seattle AEG from the pull-down menu before writing your comments. Thank you, out/office_org/headquarters_offices/avs/stakeholder_feedback/afx/afs100/
	new building on Feb. 26th. As of Feb. 26th please use the following information to contact
me:	The A saliding of the St. Leaf No of the St. Leaf please are the following the matter to serial actions.
From:	@boeing.com]
Sent: Friday, February To:	09, 2018 8:48 AM <u>@faa.gov</u> >; <u>@faa.gov</u> >
Subject: RE: Template	L

I'm all for pulling them out altogether if you guys can jedi mind trick 280 into doing what they let Brand A get away

737 Chief Technical Pilot
707 Cilier recilinical Filot
DEING
From: @faa.gov [mailto: @faa.gov]
Sent: Friday, February 09, 2018 8:46 AM To: @faa.gov
Cc: @boeing.com>
Subject: RE: Template question
to expand on the conversation of DT'sthere has been a recent push back from OEM's regarding the inclusion of DT table all together. Some OEM's are saying they do not want any DT's included because they are proprietary. 280 let one FSB report post without any DT's and now the negotiation is open for discussion.
Aviation Safety Inspector, Operations Specialist
FSB/FOEB Chair B-737 Seattle Aircraft Evaluation Group
We value your feedback and seek to improve the services we provide. Please take a few moments to visit the website shown below to let
us know how we did. Select Large Transport Aircraft Seattle AEG from the pull-down menu before writing your comments. Thank you. https://www.faa.gov/about/office_org/headquarters_offices/avs/stakeholder_feedback/afx/afs100/
We will be moving to a new building on Feb. 26th. As of Feb. 26th please use the following information to contact me:
From: FAA Employee (FAA)
Sent: Friday, February 09, 2018 8:30 AM
To:@faa.gov> Cc:@boeing.com>
Subject: RE: Template question
Funny you ask. I have not submitted a -10 787 FSB report yet. I will not do that until they publish the rewrite one first. I do not want to muddy the waters what we are "negotiating" about. I am keeping a record of the many hours spent dealing with a simple template revision. When I submit the -10 report it will not have a new DT. I will hold tight to that until told otherwise.

with (i.e. not publishing them)

FSB/FOFB Chair B-777/787
Seattle Aircraft Evaluation Group
Leane In Grap I valuation (Toup
We value your feedback and seek to improve the services we provide. Please take a few moments to visit the website shown below to let us know how we did. Select Large Transport Aircraft Seattle AEG from the pull-down menu before writing your comments. Thank you. https://www.faa.gov/about/office org/headquarters offices/avs/stakeholder feedback/afx/afs100/
E TOTAL TOTA
From: FAA Employee (FAA)
Sent: Thursday, February 08, 2018 3:07 PM
To: Ofaa.gov>
Cc: @boeing.com>
Subject: FW: Template question
what say you?
Aviation Safety Inspector, Operations Specialist
FSB/FOEB Chair B-737
Seattle Aircraft Evaluation Group
We value your feedback and seek to improve the services we provide. Please take a few moments to visit the website shown below to let
us know how we did.
Select Large Transport Aircraft Seattle AEG from the pull-down menu before writing your comments. Thank you.
https://www.faa.gov/about/office_org/headquarters_offices/avs/stakeholder_feedback/afx/afs100/
We will be moving to a new building on Feb. 26th. As of Feb. 26th please use the following information to contact me:
From: @boeing.com
Sent: Thursday, February 08, 2018 1:38 PM
To: <u>@faa.gov</u> >
Subject: Template question
Hi [j
Limited the control of the control o
Can you ask if 280 asked him to update the DT for the 787-10 from the 777, to itemize each
individual change and its training level, like made you do in the MAX? It's curious that she allowed it to go to
public comment with something that resembled this as I understand it? Attached.
Thonks
Thanks
L

737 Chief Technical Pilot



From:	Boeing Employee
То:	Boeing Employees
Sent:	4/24/2018 8:24:12 AM
Subject:	RE: BBJ 8 flight test update
give them the prowe propose is a	hook for making the training level determination for each new sub-model. Usually they require us to prosed differences training, then go fly the airplane to prove to themselves the minimum training acceptable IAW AC 120-53B. I was able to jedi mind trick them that there is enough commonality he -800 BBJ, that they could just do the -8 BBJ by analysis. Same for EASA and TCCA. It's all
737 Chief Technic	al Pilot
BOEI	NG
ki	g Employee
	April 24, 2018 8:20 AM
То:[@boeing.com>;
Subject: RE: RE	@boeing.com> 3J 8 flight test update
Subject. NE. DE	55 6 hight test apaate
It was busy, no d	loubt. What did AEG want to flight test??
	April 24, 2018 8:18 AM
To:	@boeing.com>;
1 Subject: RE: BE	@boeing.com> 3J 8 flight test update
	jammed on that bird! Nice job! I convinced the AEG to do the Operational/Training approval by vith the -7 and -8200. So there shouldn't be an AEG flight test need on your bird.
Thanks for the u	odate.
737 Chief Technic	al Bilot
737 Oner recillic	ai Filot
BOEI	NG .

From: Boeing Employee
Sent: Tuesday, April 24, 2018 8:15 AM

To:	@boeing.com>;
@boeing.com>	
Subject: RE: BBJ 8 flight test update	
Hi	
1C001, first BBJ MAX 8, completed all E for aux tank STC and we will flight test in Completed the following in flight test here C5.04.AAJ – FMCS Polar Region Demo C5.15.ABA – Airstair Flight Deck Indica C5.08.AAE – ISFD with ANAV Demo C5.15.AAZ – Advisory Ice Detection Systems	e at KBFI - o ation
Lauren	
From: Boeing Employee Sent: Monday, April 23, 2018 3:49 PM To:	@boeing.com>;
@boeing.com>	, t
Subject: BBJ 8 flight test update	
Hey guys, haven't heard anything about track? When is the flight test supposed to	the -8 BBJ flight test lately. Did you guys have first flight? Program on to finish for it?
Thanks,	
737 Chief Technical Pilot	
BOEING	

From:	Boeing Employee
To: CC:	Boeing Employees
Sent:	6/12/2015 4:42:02 PM
Subject:	RE: Slide For RCAS Training Wording
there isn't a differenc	The training is the important thing, and that it is on at least one of their NGs, this establishes e between what they're trained for on the NG and the MAX, regardless of how many NGs now it sounds hokie, but that's the game we have to play with the regulators.
737 Chief Technical P	rilot
BOEING	BOEING EDGE Flight Services
From: Boeing Employee Sent: Friday, June 12, To: Boeing Em Cc: Boeing Em Subject: RE: Slide For	
Hi [
am a bit slow.	
So CBT is planned fo	or in 2016 for NG pilots taking 737 MAX in 2017 to eliminate differences training, correct?
Why only 1 NG is req RCAS?	quired for RCAS active and not an entire in-service NG fleet before taking their 1 st MAX with
Regards,	
1	
Business Development	
Modification Services	
Boeing Commercial Air	plane

www.boeing.com\modservices

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From: Boeing Employee

Sent: Friday, June 12, 2015 3:43 PM

To:	Boeing Emplo	oyees
Sub	Boeing Emplo	AS Training Wording
The	e point of that bullet is a option as soon as pos	that we need to ha

The point of that bullet is that we need to have retrofit available, and preferably free, to get our customers to take the option as soon as possible. Realize the only real time constrained NG operators are those with 2017 MAX deliveries, as they'll need all of 2016 to get their pilots trained on RCAS prior to turning the system on, on at least one of their NGs, in early 2017 ahead of their first MAX delivery. So whether they take it in production or retrofit, they can't turn it on until their pilots are all trained.

]
737 Chief Technical P	ilot
BOEING	BOEINGEDGE

From: Boeing Employee

Sent: Friday, June 12, 2015 3:39 PM

To: E

Boeing Employees

Subject: RE: Slide For RCAS Training Wording

Wording looks good.

However, it does bring up scheduling concerns with the statement that all MAX/NG customers need to be trained to avoid differences and some customers will not be getting an NG delivery after RCAS certification.

I do not have any follow on slides to address any schedule impact questions for retrofit that might be posed.

Is there a schedule challenge for retrofit?

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Roeing Commercial Airplane	Modification Services	
boeing Confinercial All plane	Boeing Commercial Airplane	

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From: Boeing Employee

Sent: Friday, June 12, 2015 3:25 PM

Cc: Boeing Employees

Subject: RE: Slide For RCAS Training Wording

How's this ?

1			
737 Chief Technical Pilot			
Ø BOEING	BOEING EDGE Flight Services		
From: Boeing Employee Sent: Friday, June 12, 2015 To: Boeing Employee Subject: Slide For RCAS Tr			
Hi			
Attached is the slide for the	ne subject wording.		
Regards,			

Business Development
Modification Services
Boeing Commercial Airplane

www.boeing.com\modservices

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From:	Boeing Employee
To:	Boeing Employees
CC: Sent:	3/28/2017 9:00:58 AM
Subject:	RE: Flight Transition costs
1	
transition from Note make that a reparticular experie additional training who's already floget 100 hours or flying the MAX withat the MAX is	the importance of holding firm that there will not be any type of simulator training required to G to MAX. Boeing will not allow that to happen. We'll go face to face with any regulator who tries equirement. If a particular customer wants to add additional training due to concerns with their ence level of their pilot group, then that is an internal issue to that airline. But in actuality that g should be limited to perhaps requiring the first officers first flight on the MAX to be with a captain own it once, or maybe like what is doing is requiring their new hire first officers to the NG after they're type rated before they have them take the MAX differences CBT and start with the NG. Those are both reasonable options that are based on an airline's internal issues, NOT so different from the NG. To be offering this airplane with any other training requirement other that is doing a disservice to the MAX.
737 Chief Technica	
From: Boeing E Sent: Friday, Ma To:	urch 24, 2017 2:41 PM
Cc:	Boeing Employees
Subject: RE: Fli	ght Transition costs
them on board w FAA is pretty por	hold firm at \$0. Ing to broker a meeting between our Flight Tech group (and co) and TTCAA, to get with the guidance from the FAA (ie. no Check needed). Werful and most countries defer to what the FAA does (except for the National Authorities that are ages. Eg. JCAB, ANAC)
Thanks,	
From: Boeing Sent: Friday, Ma	Employee urch 24, 2017 2:36 PM
To: Cc:	Boeing Employees
Subject: RE: Fli	ght Transition costs
Thanks	28

The only risk is that they will ask us to provide financial support to cover the worse case scenario As you know, Airbus is throwing money at the flip, so might a good strategy be to hold firm on the logic of the lower end scenario?
Thoughts appreciated
From: Boeing Employee Sent: Friday, March 24, 2017 2:34 PM
Boeing Employees
Subject: RE: Flight Transition costs
Thank, Your files really clear up my questions. J
It's probably a good idea to provide a cost range, as we do not know how the regulatory discussions will turn out.
On the low end:crew sets training at home with CBT (no Check required) On the medium end:crew sets training at MIA with CBT (no Check required) On the high end:crews training on CBT for one day in MIA. Then one day in the FFS (4 hours) for a "proficiency check" in the device:
This is a "worst case" as Level B training doesn't require a "check ride" but regulators can be quite conservative.
can you coordinate with to see how many licenses of NG-MAX differences CBT will receive? Can they take one CD-R and load it to 20 computers?
Thanks,
From: Boeing Employee Sent: Friday, March 24, 2017 2:17 PM To: Co: Co: Co: Co: Co: Co: Co: Co: Co: C
Boeing Employees
Subject: RE: Flight Transition costs
Hi Land
Hope my math was correct, but the assumption is thatcrews =persons
and did a deeper dive with them back in September of 2016 (see trip report attached, WORD document). This was when the issue of TT CAA Sim session first came up.
I have re-attached the proposed PDF file again.
From: Boeing Employee Sent: Friday, March 24, 2017 2:10 PM
Roeing Employees

Boeing Employees
Subject: FW: Flight Transition costs
Hello
Here are my questions/clarification we need from 1)
From: Boeing Employee
Sent: Friday, March 24, 2017 1:55 PM
Boeing Employees
Subject: RE: Flight Transition costs
Adding just in case can't get to it while on travel.
Your thoughts?
From: Boeing Employee Sent: Friday, March 24, 2017 1:51 PM
Boeing Employees
Subject: Flight Transition costs
Our customer provided us with the EXCEL sheet below, with the simple ask of providing the data highlighted in yellow. They are asking Airbus to do the same.

Transition Costs		
Flight Crew	Cost	Assumptions
Initial Training		
Sim Session		crews
Hotel + Perdiem		2 days duration
Total		Hotel: \$150 per night
		Per Diem: \$50 per day

My concern is the 2 day + Sim Session request shown above.

Since the transition costs should be based around the FAA approved training (which is Course C, 4 hour CBT-only training, or 1 day), my thought was to provide the attached PDF file (Flight Transition Concept), as part of our response.

Please review and let me know if you agree or see any concerns.

Thanks					
f					
Sales Directo	r, Africa & C	aribbean Bo	eing Commerci	al Airplanes	
[

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 ${
m P}$ Please consider the environment before printing this email

From:	Boeing Employee
To:	Boeing Employees
Sent:	6/7/2017 3:47:26 PM
Subject:	RE: MAX LEVEL B DIFFERNCES SOLUTION
Subject.	RE. MAX LEVEL B DIFFERINCES SOLUTION
Haha, I'll send you to r do to sway an operator	negotiate piece in the Middle East next. Goes to show what a little bit a accurate info can in the right direction
Looks like my jedi mind	trick worked again!
These are not the droid	s you're looking for
737 Chief Technical Pilot	
From: Sent: Wednesday, June	9 07 2017 12:12 AM
To: (@boeing.com>
	(@boeing.com>
Cc: Subject: Re: MAX LEV	'EL B DIFFERNCES SOLUTION
Dear	
source for transition tra Those presentations yo Regarding CAT II/ CAT training material ?	sentations and I accept and agree the training requirement for Boeing Max as CBT is ining from B737800 to Boeing Max. The send me was very helpfull. III and ETOP B 737 training materials can i have it for free or any sugestion to have those have further question, we will keep in touch.
Thank you	
Best regards	

On Jun 7, 2017, at 11:23 AM,	@boeing.com	> wrote:
be creating a difficult and unnecess your region for other MAX custome	simulator for its pilots beyond what all oth sary training burden for your airline, as well ers. I have suggested some alternatives to let me know if you would like to discuss fur	as potentially establish a precedent in prequiring a MAX simulator below.
Thank you,		
737 Chief Technical Pilot		
From: Boeing Employee Sent: Monday, June 05, 2017 10:5	SQ DM	
To:	75 110	@boeing.com>
Cc: Subject: RE: MAX LEVEL B DIFF		
Please keep in mind that the supple Handout differences only, as they	ched the technical and operational difference ementary and non-normal procedure differences are read-and-do procedural differences. In I like, or you can review them and if you ha	ences are considered Level A, or would be happy to present these
requiring a minimum hours requirer requiring the first flight on the MAX	ent, you may want to consider what other a ment on the 737NG before doing the MAX (be with another pilot who has already flow ny of these solutions to be acceptable. A s ation.	differences training, or perhaps on it. I believe, based on other
I look forward to working with your	team as you prepare to bring the 737 MAX	X into your operation.
Regards,		
[

737 Chief Technical Pilot
DEING
From:
Sent: Monday, June 05, 2017 9:33 PM
To:
Subject: RE: MAX LEVEL B DIFFERNCES SOLUTION
Dear
Thank you for the explenation. I will discuss further with my team.
Regards
Deputy Training B 737
From:
There is absolutely no reason to require your pilots to require a MAX simulator to begin flying the MAX. Once the engines are started, there is only one difference between NG and MAX procedurally, and that is that there is no OFF position of the gear handle. Boeing does not understand what is to be gained by a 3 hour simulator session, when the procedures are essentially the same.
Perhaps we should discuss at your earliest opportunity. The FAA, EASA, Transport Canada, China, Malaysia, and Argentinia authorities have all accepted the CBT requirement as the only training needed to begin flying the MAX. I'd be happy to share the operational differences presentation with you, to help you understand that a MAX simulator is both impractical and unnecessary for your pilots.
Please let me know when would be the best time to have a webex discussion.
Thank you
737 Chief Technical Pilot



From: Sent: Monday, June 05, 2017 8:42 PM
To: <u>@boeing.com</u> >; <u>@boeing.com</u> >
Cc: Subject: RE: MAX LEVEL B DIFFERNCES SOLUTION
I'm still on going with the team. The syllabus still on progress. On my side i decide to gave the transition pilot with 1 sim familirization. And also gave them 24 hours ground class room including CBT that Boeing gave us and flight technique compile with company guidance procedure.
Actually i have question regarding ETOP for Boeing 737 MAX
as a Technical Pilot B 737 at will intouch with you
I will give you a call after I discuss with my team on syllaby.
Best regards
Deputy Training B 737
From: @boeing.com> Sent: Tuesday, June 6, 2017 10:29:27 AM To:
I would like to discuss what if any requirements beyond the Level B CBT the DGCA has required of you, or if your airline has determined any additional training is required. Please call me today on my cell phone, at your earliest convenience. Do not worry about what time it is here for me.
My cell is
Thank you,
737 Chief Technical Pilot
From: Sent: Monday, June 05, 2017 8:26 PM 35

To:	@boeing.com>;	@boeing.com>
Subject: Re: MAX LEVEL B	DIFFERNCES SOLUTION	
Dear		
Updating my cell no is		
Thanks		
Donate Training D 727		
Deputy Training B 737	1	
From:	@boeing.com>	
Sent: Tuesday, June 6, 2017		
To: Boeing Employee		
Տubject: MAX LEVEL B DIF	FERNCES SOLUTION	
1		
<u> </u>		
l just spoke with call him this time tomorrow a	at his mobile # below. Currently in FFS t number below (and attached). The numbe	S and busy rest of day. He welcomes you er shall be:
This would be 11:00 AM Jak	arta time	
The House of Theorem Can		
Best Regards,		
∐ Boeing Flight Singar	Services Regional Sales Manager APAC ore UTC/GMT + 8 hours	
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on the information contained in this email o	ential and may also be privileged. If you are not the addressee, or any attachments. If received in error, notify the sender immedia	iately and delete this email and any attachments from your
amended.	e secure or error free as the message and any attachments countries; do not accept liability for damage caused by this email or a	any attachments and may monitor email traffic.
-		
on the information contained in this email of	lential and may also be privileged. If you are not the addressee, or or any attachments. If received in error, notify the sender immedia e secure or error free as the message and any attachments cou	iately and delete this email and any attachments from your
amended.	do not accept liability for damage caused by this email or a codf>	any attachments and may monitor email traffic.
<ng differences.p<="" max="" td="" to=""><td></td><td></td></ng>		
	-144.00	

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amended.	do not accept liability for damage caused by this emaîl or any attachments and may monitor email traffic.	

From:	@boeing.com>
To:	Boeing Employees
Sent:	12/10/2014 2:39:47 PM
Subject:	Missed conversation with Boeing Employee
[2:13 PM]	l:
how'd IPT go?	
	4 PM]:
and the contract of the contra	ds like TD is planning on using NG T1 plus MAX differences for the manufacturer's minimum course, oned to us the other day
[2:15 PM]	
	etty ugly set of CBTs, but if it meets minimum, that's fine. No one is going to buy that training (I
hope!)	
	B PM]:
And the second of the second o	AEG will be okay with going about the transition course this way
[2:19 PM]	(:
I hope	that got blurting out an FTD is needed
oops, guy not got	that got bruiting out an Fib is needed
	PM]:
that was pretty much a	turd in the punchbowl
[2:20 PM]	l:
big stinky one	
	oing to latch onto that like a starving dog to a milk bone L PMI:
	ate on the T-1 DOORS thing, I sent an email to the asked to take care of it.
[2:22 PM]	
	hat the DOORS thing is
	3 PM]:
Getting on the BT&E so	thedule to do the T2 test.
[2:24 PM]	
CONTRACTOR DESCRIPTION OF THE PROPERTY OF THE	ut T2/T3 for the -8 and T1s for the -9 and -7????? 4 PMJ:
Will send	an email reminding him that he promised a Task Analysis briefing to the AEG in January. I hope
they are making progre	
	about it, but my understanding is that we still need to apply to have it on their schedule. Details to
follow	
[2:25 PM]	
	CAS stuff, we're going to have to immediately start up on RSAT, to try and get the training level
determination	5 PM]:
agree	, rwij.
[2:26 PM]	j:
	an NP PMP, who's working the pitch to or both. I told her she needs to wait until late Jan early
Feb for the RCAS traini	ng level, and it will be months before we get it for RSAT
[2:37 PM]	
oops, I meant NG PMP	(Program Mgr)

From:	Boeing Employee
To: CC:	Boeing Employees
Sent: Subject:	^L 2/26/2013 1:29:13 PM RE: Synthetic Airspeed
	e need the trade study to authorize work for us to figure out what the recommended presentation oal of course would be to keep differences training to a minimum, but without a format we can
only speculate.	bai of course would be to keep differences training to a fill lifting in a fill lifting to a fill lifting in a fill lifting to a fill lifting in a fill lift
	ection switches would simplify the implementation logic by relying on the crew to select synthetic agged, but that drives changes to the non-memory items in the NNC and would be more difficult to
Rut we'll definitely	y be asking for your input as we go do that work.
Dut we il demittet	
From: Boeing En	mployee ebruary 26, 2013 12:51 PM
	Employees
Subject: Re: Synt	
Let me see what	implications would be, if only in NNC and not affecting memory items, it could be ok.
1	
Kind regards,	
ina regards,	
737/737 MAX Ch Chief Pilot Regul	nief Technical Pilot atory Affairs
The Boeing Com	pany

From: Boeing Employee
Sent: Tuesday, February 26, 2013 12:48 PM
To: Cc: Boeing Employees

Subject: RE: Synthetic Airspeed
This is the latest draft; however, we are far from validating this as the final version of the Airspeed Unreliable checklist.
As I pointed out in the telecon today, an introduction of synthetic airspeed to the MAX would drastically alter this Critical Action, Memory Item Non-Normal Checklist. If synthetic airspeed is standard as opposed to an option, it would likely jeopardize the Program directive to maintain Level B training for our customers.
l've included who is the lead Tech Pilot for the MAX.
I was on the MAX Systems SAM call today, to listen to the proposal for the new I-ADIRU for the MAX, and synthetic airspeed was brought up. First I had heard of it, so I mentioned the above to the group.
Thank you,
737 Technical Pilot
BOEING BOEING Flight Services
From: Boeing Employee Sent: Tuesday, February 26, 2013 10:36 AM To: Boeing Employee Subject: Synthetic Airspeed
Do you have a copy of what the 737's Airspeed Unreliable checklist will be as a result of the SRP? I don't think I've seen that one yet.
It will be a challenge to implement synthetic airspeed on the 737, particularly since it doesn't have so the implementation will need to be different from the 787.
Flight Deck Crew Operations

From:	ի@boeing.com>
To:	Boeing Employees
Sent:	7/7/2016 4:52:38 PM
Subject:	Conversation with
	8:59 AM:
hey	ed .
3:5	9 AM:
yeah	
L	8:59 AM:
has see	en the standard NG to MAX pitch? They are coming here 7/25-26 for a Ecab demo
8:5	9 AM:
I don't remembe	r
who from ?	
p	N 9:00 AM:
l	1
9.0	.) 00 AM:
don't know the n	
don't know the h	9:01 AM:
Llic title cave Dire	and the state of t
	ector-Boeing. Not sure what that means is putting together the agenda, I will have him put in time fo
the pitch before	
(2 AM:
sure	
L	
Remember to pro	od about and working Aug 13 and 14, We want to get this schedule out asap.
Thanks	
	IO AM:
and ILS only, any	thing else?
I feel like we had	another IOU from them to consider
	9:41 AM:
an IOU for the de	eicing stuff that we won't have in time for the T3
9:4	11 AM:
can you check yo	our notes from our last mtg plz?
right	
looks like we wor	n't have the 120 min limit, which is huge
<u> </u>	9:42 AM:
that's it from my	notes
	12 AM:
la.e.e.e.e.e.e.e.e.e.e.e.e.e.e.e.e.e.e.e	ry 60 min instead of of 30 min
	t this run up is mandatory, so they don't think of it as a memorized limitation
This government of this	9:44 AM:
new tonic COPA	meeting 7/21. For the tailstrike discussion, we want you, rom Anyone else?
	16 AM:
maybe ask!	if he can attend to discuss how our IPs train rotation and landing?
Highe aski	
olena.	9:46 AM:
okay	*****
will ask him to at	
	17 AM:
cool	

3:16 PM:

hey 3:17 PM:
hey
is it too early to start drinking?
3:17 PM:
never. how'd it go?
3:19 PM:
she insists on being able to "feel" the handling characteristics of the DLC for inadvertent actuation. So she's going to bully
her way onto the cert flight with But that won't be until AFTER the T-tests
3:20 PM:
u huh
but that is one person (her) opinion, not exactly a validation process
3:21 PM:
I know, but still presents a post-T-test risk
how do we handle this?
3:21 PM:
do we have a date for that flight?
3:22 PM:
run it by and his team first, then elevate to to see if we can get the flight done as early as possible? I know they're in
the process of re-working the system a bit after the engineering flight a few weeks ago
do you recall if there is proof the 787 doing a T2 and T3 on the server by chance? Now I have a flight test guy questioning
us about T1 vs T2/T3, etc. Trying to blow up our whole plan
3:23 PM:
Good to go to [] I think the way to go is to challenge the process of her alone making the decision, and on a cert flight
I can look for the 787 tests
3:24 PM:
I'm not too worried about her. She knows damn well that if her and her alone makes this call that this stupid NNC requires
sim training that she'll get crucified. She just wants to say she "evaluated" it.
just like she rolled over on RCAS
3:25 PM:
As long as she comes up with the right answer. What's the flight test guy's beef?
3:25 PM:
I'll fwd
I think I'll just call him, I don't feel like wasting that time and energy on an email if I don't have to. I just want to be able to
tell him T2/T3 was done, not T1
3:26 PM:
okay. Talked/Webex'd with Nice guy. He has a family reunion in lowa Sat the 6th, would like the early sim
on the 5th so he can get out of town. What if we pair him with for the sims?
3:28 PM:
ugh. I'm ok if is
I didn't see the STAR course email til after I left
3:30 PM:
Sure.
3:34 PM:
If we have the guy in the sim with a TCCA guy, then we need watching the TCCA guy and watching the
guy.
I got that wrong
The EASA pairing would need and you watching. The TCCA/FAA would require watching
3:36 PM:
on you're right, we can't mix them otherwise I can't be there to evaluate, for consistency purposes
3:41 PM:
or, we move the guy to do sims with the bunch 7/31-8/2. That would mix him with the T3 guys, which probably isn't
that big a deal

	3:41 PM:
	sure, let's do that
	as long as it doesn't create a big break in training for anyonee
i	3:43 PM:
į	Lemme do this, I'll contact; and offer that up to him. He was bidding his schedule today. If he is okay with that, then I
	terminated and the second and the se
,	will ask the ASA and AAL guy if one of them will switch groups
į	3:47 PM:
	ok cool
	I'll cover the rest of our mtg today with you tomorrow in person. lots of stuff to go over
i	3:47 PM:
	talking to him now
-	4:04 PM:
i.	he can catch a 5:45 flight to Atlanta after his sim on the 5th. I told him we would drive him from sim to terminal. No change
	to the schedule.
r	
L	4:05 PM:
	ok cool
	4:06 PM:
	It sounds like he isn't getting (or asking for) support to drop trips. I told him we would be glad to intercede for him if he
	asks us. He asked about hotel, I told him he should ask to put him up, probably at the usual layover hotel.
	I didn't get intocovering per diem
Г	4:07 PM:
i	oh jeez
	damn cheap !
1	
i	4:08 PM:
	He sounds a little timid to ask. We may want to put a bug in there ear to take care of him
İ.	4:12 PM:
	do you know if CAS funds the T-test WSRD flights?
-	4:13 PM:
	dunno, is there a line on the WSRD request for CAS to sign off?
-	4:14 PM:
	yes
	who's the CAS guy again?
-	4:15 PM:
į.,,	
	s the top man, although he would probably delegate any question you send him. Are we looking for
-	additional \$\$, or verifying what we have?
i.	4:16 PM:
	we need 4 hours for each T2 and T3 right? "
	have this guy from FIt Test Integration asking who pays for it
-	4:17 PM:
	yes, at least. Reading the email trail on this right now
ľ	4:17 PM:
1	he's the WSRD coordinator
·	4:19 PM:
i	
1	drawing a comparison between the MAX and 787-9 doesn't work.
į	4:19 PM:
	is that the T1 he was referring to?
(4)	I didn't look close at it
-	4:20 PM:
.46	yes, he said that the 787-9 only needed a T-1, so why does the MAX need a T2 and T3?
-	4:20 PM:
	I did find the T-2 and T-3 stuff in the server
	ah, I missed that
1	ia:23 PM:
	MY

	OMG, this process is so messed up
	I've got 3 emails about the t-tests from 3 different groups today
-	4:24 PM:
Ĺ	We Boeing elected to forego the T-1 because we thought it was a little too risky to send guys into the MAX with no
	training
1	4:24 PM:
	no one knows who is doing what!
[4:29 PM:
-	The AC is clear that no training can be given for a T1. We thought that was a stretch, and a waste of time to go through the motions
-	4:30 PM:
	yeah I'll talk to him tomorrow and smooth it out
-	4:32 PM:
1	was gung ho to go and give it a shot, but with the AEG's attitude at the time (and the slow progress of things, due to
	his lack of response) it was decided to not go through the pain of busting a T-1
	4:37 PM:
_	what did say about the other 2 FAA guys working on the weekend?
-	4:41 PM:
-	she said she'd get back to us tomorrow, no word back yet
promised answer on ILS vs RNAV tomorrow too, they're torn amongst themselves	
-	4:47 PM:
	see you tomorrow, I'm probably bugging out about 2:00
-	4:49 PM:
	ok later

To:
T:49 AM: this has me a little concerned 7:50 AM: I guess the proof is in the pudding. Sounds to me like #2 is better because it doesn't mess with roll feel 7:51 AM: agree 7:51 AM: I assume there is no sig impact to landing distance if it is only a small deployment rate change 7:52 AM: you would think I'm just worried about the lack of de-rotation, given how much tailstrike is a concern to our customers 7:54 AM: sounds to me like the T-tests are going to have the current schedule? 7:56 AM: looking at the schedule, won't make the T test 7:57 AM: keep our fingers crossed no one notices it, and if they do, worst case we say there will be a fix for it coming 7:58 AM: maybe chat w/the flight test bubbas and see how noticeable this really is 7:58 AM: well they've said in our meetings it's definitely noticeable, but and I didn't feel it maybe only to test pilots it's noticeable? 7:59 AM: it may be transparent to the average bear
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8:01 AM:
that's what I'm hoping
8:12 AM:
there's a handy new feature, flashing MC!
8:13 AM:
no extra charge. Just sent you comments on the MAX CBT topic
8:16 AM:
saw it, I agree. so should we ask to give us a name at campus to start working this with us?
8:17 AM: ven, maybe also find a Roeing body that works with line and the regulators

From:	Boeing Employee
To:	Boeing Employees
Sent:	3/17/2016 1:49:33 PM
Subject:	Conversation with
[1:	35 PM]:
how's it goin ther	e? [[1:37 PM]:
	piel before lunch. No big objections. One question to send toabout how well LMS will play with
the E learning	
ba,a,a,a,a,a,a,a,a,a,a,a,a,a,a,a,a,	37 PM]:
•	mment about the track up vs hdg up on the PFD compass, because we're trying to get that changed due
	ame up with IRS alignment, and then I told them it was a threat to Level B because of the difference in V1 e my magic "level B" wand!!!!
cut training. 110v	[1:38 PM]:
Have a question i	f we would have a STAR course. Said no, not for now.
and the same of th	88 PM]:
L.a.a.a.a.a.a.a.a.a.a.a.a.a.a.a.	g to have to look at building the STAR
	[1:38 PM]:
so heading up wi	be standard for the rose on the MAX?
[1:5	88 PM]:
that's what	is going to push for
with track up, if y	ou have to go into ATT mode, you can never get a hdg displayed on the PFD compass rose if it's track up
	[1:39 PM]:
	R, but TD will have to gin up the footprint. I'll send that comment to TD. Was asked about reverse
	g a break. thinks that is a good idea.
	issue is for engine out V1 cut maneuvering, and the ability to fly the correct ground track in a big
crosswind	issue is for engine out v1 cut maneavering, and the ability to my the correct ground track in a big
cool	
	[1:40 PM]:
having actua	ally say they want reverse differences help to get the funding from CAS
[1:4	40 PM]:
has CL ar	d NG in is buying MAX 200s. I'll ask them about their fleet plan tomorrow at the cab demo
we're giving them	
huge win for us to	o not have to deal with CL/MAX til AFTER Level B determination! [1:42 PM]:
agree, nobody as	sked me about CL to MAX, or what the confidence level was on level B.
	12 PM]:
sweet	
you can't lie if yo	u don't have to talk!
	1:42 PM]:
1	ne big picture spiel at the beginning, then left
paramarana ana ana ana ana ana ana	with the differences modules?
L	13 PM]:
I'm looking at yo	
I should be able t	o send 2 of them back in about an hour
and that will as	[1:45 PM]: Issify them. We really don't need them getting in our chili about deadlines
good, triat will pa	issify them. We really don't need them getting in our chin about deadlines

	[1:45 PM]:
	Tknow '
	this damn RSAT fiasco really screwed up my ability to work on these this week
-	[1:45 PM]:
,,-	no question there
Ī	[1:45 PM]:
1.	I got that put to bed, at least for now, so now I'm on the training
-	[1:45 PM]:
	cool
-	[1:46 PM]:
-	now there is a skewed flap position indication issue
	the engineers are trying to find a fix
	it just never stops!
	[1:47 PM]: ₁₂
	agree

- Fire trans	Phoping com
From:	@boeing.com> Boeing Employees
To: Sent:	1/5/2016 9:08:26 AM
Subject:	Conversation with
Subject.	Conversation with
£7.43	7 AM]:
yo	ANI,
	[7:48 AM]:
yo	
San Color and the william Color and the	B AM]: re we with the regulators?
]7:48 AM]:
	20. Meetings in the a.m., ecab in the afternoon
[7:49	
	nitments with them?
	hang out withiWed night to give them a cab session too
	it when they want the cab
	[7:51 AM]:
1	tments, was thinking of going out for a beer with them on Tues after the cab. Will be a small group.
(TCCA)	Linear and the second
-	rief after the Wed pm cab session. at we come up with for cab show and tell, we may not need a whole 4 hours on Wed
	2 AM]:
ok cool	
	esting juggling act for me that week
	[7:53 AM]:
<u> </u>	on Tuesday after we are in there with the regulators, or same time on Wed 5 AM]:
However at the same and the same at the same at the same of	e can come up with a 2 hour cab plan for Wed, so I can use the last 2 for
	[7:57 AM]:
	ng for the cab sessions in that aren't 737 qualified. That leaves as the understanding of the differences between the NG and MAX. hasn't gone to 737 school yet.
	B AM]:
dogs watching TV.	
	[7:59 AM]:
	to say the same. I think we make our money at this meeting by getting them to buy into the training
	ns. Unfortunate that won't be here, he can corral and guide her. can to some extent. AMI:
	I the inexperience present, we should be able to gang up on them and steer it the direction we want. We
	out what that direction is
	[8:00 AM]:
agree	
and the second s	B AM]:
wnatcha think of th	he ORW AFM verbiage I came up with? [8:55 AM]:
working on it keer	gesting tapped for other stuff
	5 AM]:

I'm heading for the MAX gen fam briefing in a few, I'll be in after that

	BTW; wants to meet b4 our reg mtg
	I'm trying to set something up for end of this week
	he wants to give us some guidance based on their convos with AEG
-	[8:58 AM]:
_	I talked to about sliding the diffs course left, told him we need an answer nlt 2 weeks. Hinted that the request from program is low key now, but will most likely be more formal and involve our bosses. Like the idea of the meeting, will give us more understanding/ammo for dealing with AEG
L	[9:01 AM]:
	yup get us to ask all the right questions nevt week

From:	Boeing Employee
To:	Boeing Employees
Sent:	8/25/2015 1:42:4 <u>9 PM</u>
Subject:	Conversation with Boeing Employee
	[11:42 AM]:
hey	
	a link to the pptx that we updated in this meeting.
	:50 AM]:
ok	
	[11:51 AM]:
	ed the inbound CRI on the Roll Arrow, and FAA IP on the ORW. I added that we met with AEG on the CBTs
and updated the	
	::55 AM]:
is proba	ably going to push for removing ARSA as cert requirement
	[11:59 AM]:
cert requirement	
	2:00 PM]:
yes	er to look at an IAN issue right now for U12, perhaps give it a thumbs down, which will delay cert of U12,
	portunity to push for removing ARSA as MAX cert requirement
and take this opp	[12:02 PM]:
do we/she have a	a strong enough case to convince SACO ARSA isn't required?
	2:02 PM]:
	o, and so do I
	./3 roll authority, so it can't get in the conditions the latest amndt is trying to protect for
	[12:03 PM]:
that makes thing	s easier for the MAX. Lots of hours and \$\$ spent on that thing.
[12	2:10 PM]:
i know, but massi	
	25 PMJ:
flies the N	G more than the tech pilots do. How wrong is that?
	[1:26 PM]:
on a number of le	
	29 PM]:
I'm hoping we ca	
waiting to hear b	
That would be a l	
	noot if after AEG approves the CBT, we come back to them and say "nevermind " 30 PM]:
lol lar	tinp
Iknow	

but this is what these regulators get when they try and get in the way. they impede progressw

50

From:	Boeing Employee
To:	Boeing Employees
Sent:	5/29/2015 8:31:54 AM
Subject:	Conversation with
	[7:57 AM]:
webex sliding ur	ntil 0830
	:57 AM]:
сору	
	ng over on this?
	[7:58 AM]:
building the pite	ch for the Regulators for June meeting on jammed elevator/DLC and how we will do the MCAB session.
I I	and I were in the MCAB on Wednesday
<u> </u>	:59 AMI:
	d that go? any big surprises?
OK COOI, HOW CIT	[7:59 AM]:
Lavale at fluing is	ammed elevator without DLC
	:59 AM]:
it's tough huh?	
	ne my first few times, that's what scares me about showing any of this to them
you can get dec	ent at it after 3-4 tries, but the first few are ugly
	[8:00 AM]:
	o tweak the elevator effectiveness a little. Yeah we talked about using a reasonable cg to make it doable
	e want them to succeed without DLC
	t chasing pitch and power and get in a PIO
	:03 AM]:
	have to have it trimmed up pretty well when you start your appr descent, and the thrust coupling is way
	han the DLC, at least that's what I found
you of course ha	ave to pretty much disregard your airspeed :)
	[8:05 AM]:
agree. The prof	iles we were flying gave you the plane 10 mile final, level on speed at F15. Pretty stable start.
yesterday was ta	alking about starting at altitude. That is going to be a bag of worms and a waste of time.
[8]	:05 AM]:
that is irrelevant	;, since the DLC doesn't work until the flaps are extended
	[8:06 AM]:
agree. didn't wa	nt to get into it with her, told her we were still building the profile
The second secon	:06 AM]:
we don't have ti	me to show them multiple scenarios from alittude thru landing, that's stupid [8:07 AM]:
Control of the second s	cogether a sequence that we will go over. We will also pull some of the slides from the pitch and May to the AEG. Were you there for that pitch?
	:08 AM]:
ves	
•	watching TV for the AEG (and me too)
	raphs, blah blah, stuff non-engineers and test pilots can't really understand
	ines all line up between max and NG, which is supposed to prove they fly the same
Julie Enditure	[8:10 AM]:
cent me t	hat pptx, yeah a little too technical. I think that didn't sit well with as she wants to experience it.
Lana and the same of the same	bout that yesterday, in that we are moving from the chalk talk to the practical demos to win their
confidence	
Commutence	51

[8:11 AM]:
unfortunately I think she is going to suck so bad at flying them, she's going to demand this be trained in the sim
I started thinking last night, what if we mandated the training in the NG starting in 2016, so everyone was trained on it
ahead of MAX, (like RCAS)?
if there real concern is being trained on it in general, than it should be sufficient to get everyone trained on the NG
the theory again being if you can do it in the NG, you can do it on the MAX
[8:15 AM]:
agree that is the risk. well understands that. One reason the proposed sequence includes a normal F15 as a war
up and the scenario builds from there. Mandate training jammed elev? Not a bad idea if you like practicing bleeding. W
can recommend adding that into 2016 recurrent, but that would be admitting the difficulty of flying it in a model that has
already been certified
8:17 AM]:
I understand that, but if that's going to be there position, then that may be only option
I would prefer we just go fight all these battles at once in DC and be done with it
we're going to have to sit back and wait for their latest IP and then tear it apart with a logical argument or whoever can take to DC to end this
agree. Need to call this morning and find out more about this EASA/OSD meeting June 9-11 she talked about
yesterday. I can't find anyone here that knows about it. Maybe has more details. Will ask her about an ETA on the
IP
[8:20 AM]:
I saw that email traffic
interesting that no one in Boeing knows about it
[8:21 AM]:
Getting the info second hand from the AEG may be the problem. Will clarify with her. Will also see her this afternoon at
retirement party
[8:23 AM]:
Ok cool

From:	Boeing Employee
То:	Boeing Employees
Sent:	'4/12/2016 9:04:14 PM
Subject:	RE: MAX Recurring meeting 4-12-16
Attachments:	NG to MAX Differences.docx
	MAX differences document to outline all of the large and small changes on the MAX (see last ow). The concern is that sum of all of these small changes could potentially jeopardize level B
aining.	
Please take a loo send to the cert p	k and add/delete as you see fit. Once it has made the rounds within our group then we need to ilots.
Thanks,	
Flight Technical & Sa ~ Des	
~ Mob	ile
From: Boeing E	mployee
	pril 12, 2016 3:42 PM
Го: [@boeing.com>;
	@boeing.com>; @boeing.com) @boeing.com>
Subject: MAX Re	ecurring meeting 4-12-16
FΥI,	
From the MAX re	currina meetina:
	NTI-ICE annunciator panel light illuminating in flight without a known cause.
	oking to add an additional camera to capture overhead panel lights to track reason
	uld take time to get camera
o Joir	ned meeting late so no more information.
	NG ANTI-ICE light latching on battery starts
	o latches on standby power if in flight
	ld like to increase the time the amber L/R VALVE WAI light can remain illuminated before settin
the MC lig	μπ s is to reduce a lot of the nuisance alerts that are being seen in flight tests
	OWL ANTI-ICE light illumination when engine thrust is suddenly increased.
	ample, descent followed by level off when EAI is on
·and	expressed a BIG CONCERN that all of the small changes are really starting to add up.
	uld be a threat to level B
o A lo	ot of small changes in systems that where not supposed to have any changes from NG
	§ Electrical - 3 or so second delay to engage generators after start
	\$ Longer transition times in EAI/WAI valves \$ Longer engine start times.
	§ Longer engine start times § Etc.
	and would like to start a list of all of the changes, big and small.
٧	§ I will start working on this list. Will send around internally to compile and then will send to the
	pilots for comments

	1
Eliaht	J Technical & Safety
	- Desk
	~ Mobile

.

From:	@boeing.com>
To:	Boeing Employees
Sent:	9/20/2016 4:45:27 PM
Subject:	Conversation with
oubject.	Conversation With
3:24 PI	M:
	sues we want to talk about?
	3:24 PM:
nope ,	
	veather radar config not working for 20 seconds each time you switch between the systems
3:26 PI	
oh sweet jesus	
Control of the Contro	3:26 PM:
	e of the 3 affected customers would be????
1	
4:12 PI	M:
this is a joke	
this airplane is ridi	culous
	4:12 PM:
getting better and	better
what havent they	
Whats next?	
4:13 PI	M:
who knows	
	4:13 PM:
We are having iss	ues with every update we do
4:14 PI	M:
it seems like they'	Il never get it right
fix one thing, brea	k 3 others
	4:21 PM:
OMG!!!!	
What the hell	
4:42 PI	M:
ugh	
I need a cold one	after that
Gustavsson, Patrik H	4:42 PM:
me too	
This is just ridicou	
4:42 PI	
too bad I have to	
	4:42 PM:
no one wants to fi	x anything
Have fun!	
4:43 PI	VI:
you too. later!	
	4:43 PM:

later

From:	Boeing Employee
To:	Boeing Employees
Sent:	8/17/2017 7:16:15 PM
Subject:	RE: QRH Procedure for MCP LOCKUP
You guys rock! Aweson	
From: Boeing Employe	ee i
Sent: Thursday, Augus	nie/mil
To:	@boeing.com>;
	boeing.com>; @boeing.com>;
	eing.com>
Subject: RE: C	RH Procedure for MCP LOCKUP
Sweet! You're jedi min	d tricks serve you well
707 Object Teachers Diles	
737 Chief Technical Pilot	
DBOEING	
From: Boeing Emlo	VAC I
)	Hereitarian and the state of th
Sent: Thursday, Augus	
To:	@boeing.com>; @boeing.com>;
L	Dboeing.com>; @boeing.com>
Subject: RE:	QRH Procedure for MCP LOCKUP
Done. will tell	he has no objection to the checklist.
From:	
Sent: Thursday, Augus	
To:	@boeing.com>;
	boeing.com>; @boeing.com>;
	eing.com>
Subject: Re:	RH Procedure for MCP LOCKUP
I suggest a phone call I	back to telling that while in general we don't support cycling CBs we realize this has
been an effective custo	omized NNC and would hate to see them lose it, especially since it's worked well for
them.	
V-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	pinion, he's asking for So let's give him enough ammo to pull the trigger.
L	
Contain the Commercial	C7 and an AT 8.T AC LTT amounts have
sent via the Samsung Galax	sy S7 active, an AT&T 4G LTE smartphone

----- Original message ------

From:	@boeing.com>
Date: 8	7/17/17 1:48 PM (GMT-05:00)
To:	@boeing.com>,
	@boeing.com>,
	@boeing.com>
Subjec	QRH Procedure for MCP LOCKUP
	seems to be getting hung up on the conversion from making their own manuals to Boeing.
The Mo	CP LOCKUP NNC is only in the COC book, no other operators get this NNC.
	see that we need to justify whether or not it complies with our definition of troubleshooting. in their book by COC, not by NTO. We didn't approve the checklist, just published it.
experie	d through my archives and don't see any discussion other than documentation in 2005 of inflight service ence. have a FOTB, attached, that directs to cycle the FD switches. That same content is in the FCTM.
Comm	ents?
From:	Boeing Employee
L	Thursday, August 17, 2017 8:48 AM
To:	r@boeing.com>;
Jenerer	@boeing.com>;
Subjec	t: FW: QRH Procedure for MCP LOCKUP
Ross is	s looking at this
From:	@faa.gov [mailto @faa.gov]
Sent:	Thursday, August 17, 2017 8:38 AM
To:	@boeing.com>; @boeing.com> it: FW: QRH Procedure for MCP LOCKUP
Would	love to hear your thoughts before I respond. Many thanks.
[
AFGP	ilot, FSB & FOEB Chairman
	70, ERJ-190, BAE-146
	Aircraft Evaluation Group (AEG)
Î	
We val	ue your feedback.
Flight S	Standards Service Feedback Form
	(FAA) Wednesday, August 16, 2017 8:30 AM
To:	(FAA); (FAA); (FAA); (FAA); (FAA)
Subjec	
	e APM for the B-737-800 fleet at the CMO. In coordination with the Seattle AEG for the past 11 lave been involved in the approval process on several versions of the QRH.
Prior to	2014, had their own stylized QRH, which provided Non-Normal procedures on the right-hant/page,

even prior to my arrival at this CMO in 2006. In 2008, at the POI's request, another APM, and I met with Inspector B-737 AEG. Inspector conducted a review of the QRHs and provided an e-mail on his findings. This e-mail and samples of that stylized QRH are contained in attachment #1.
In 2014, petitioned the SEA B-737 AEG, for approval to use the Boeing QRH and Quick Reference Cards (QRC). This request was also approved, however, due to the incapability between heeds and the rigid Boeing publication schedule, is now printing their own QRHs, but continuing to follow the Boeing procedures and format. Attachment #2 contains the current QRH version.
The B-737NG MCP LOCKUP procedure directs the crew to pull and reset selected circuit breakers on the P-6 and P-18 panels. Discussion within the office made us question whether there was any conflict between this QRH procedure and the general Boeing guidance that directs crews to avoid troubleshooting. This QRH procedure has been approved for many years, and it is the opinion of and the B-737 APMs in this office, that the procedure remains acceptable. Would you please provide us your concurrence on this matter so that an continue use of this non-normal procedure?
Thank you for your help,
Aircrew Program Manager – B737-800
Certificate Management Office
Any comments you may have on service provided are appreciated. Please email feedback to http://www.faa.gov/about/office org/headquarters offices/avs/stakeholder feedback/afs/field/

From:	Boeing Employee
То:	
CC: Sent:	6/6/2017 9:21:51 PM
Subject:	FW: MAX LEVEL B DIFFERNCES SOLUTION
Attachments:	NG to MAX Differences.pdf; Procedural Differences.pdf
Please see email I sen	t to yesterday. We had a good phone conversation. I am concerned that if
	quire a MAX simulator for its pilots beyond what all other regulators are requiring that it will
	and unnecessary training burden for your airline, as well as potentially establish a precedent in
	IAX customers. I have suggested some alternatives to requiring a MAX simulator below.
	ur team and let me know if you would like to discuss further. I also attached a few
1	just how similar the MAX is to the NG.
Thank you,	
737 Chief Technical Pilot	
() BOEING	
	····
From: Boeing Employers Sent: Monday, June 0	
To:	Boeing Employee
Cc:	
	EVEL B DIFFERNCES SOLUTION
	I have attached the technical and operational differences presentations here for your team.
the property of the second sec	at the supplementary and non-normal procedure differences are considered Level A, or
	nly, as they are read-and-do procedural differences. I would be happy to present these if you would like, or you can review them and if you have any questions please do not
hesitate to ask.	if you would like, or you carried ew them and it you have any questions please do not
	simulator event, you may want to consider what other airlines have thought about, such as
	ours requirement on the 737NG before doing the MAX differences training, or perhaps
	on the MAX be with another pilot who has already flown it. I believe, based on other
	ou will find any of these solutions to be acceptable. A simulator training requirement would be
quite burdensome to y	our operation. ng with your team as you prepare to bring the 737 MAX into your operation.
TIOOK TOTWAID TO WOTKI	ng with your team as you prepare to bring the 737 MAX into your operation.
Regards,	
737 Chief Technical Pilot	
BOEING	
From:	
Sent: Monday, June 0	5, 2017 9:33 PM
To:	@boeing.com>; @boeing.com>
Cc:	59

	Subject: RE: MAX LEVEL B DIFFERNCES SOLUTION Dear
	Thank you for the explenation. I will discuss further with my team.
	Regards
	Deputy Training B 737
	From: @boeing.com> Sent: Tuesday, June 6, 2017 11:01:40 AM To: Boeing Employee
	Cc: LI Subject: RE: MAX LEVEL B DIFFERNCES SOLUTION
	There is absolutely no reason to require your pilots to require a MAX simulator to begin flying the MAX. Once the engines are started, there is only one difference between NG and MAX procedurally, and that is that there is no OFF position of the gear handle. Boeing does not understand what is to be gained by a 3 hour simulator session, when the procedures are essentially the same.
	Perhaps we should discuss at your earliest opportunity. The FAA, EASA, Transport Canada, China, Malaysia, and Argentinia authorities have all accepted the CBT requirement as the only training needed to begin flying the MAX. I'd be happy to share the operational differences presentation with you, to help you understand that a MAX simulator is both impractical and unnecessary for your pilots. Please let me know when would be the best time to have a webex discussion. Thank you
Section of the second	
	737 Chief Technical Pilot
	Q BOEING
	From:
	Sent: Monday, June 05, 2017 8:42 PM To:
	Cc: Subject: RE: MAX LEVEL B DIFFERNCES SOLUTION
	I'm still on going with the team . The syllabus still on progress .On my side i decide to gave the transition pilot with 1 sim familirization. And also gave them 24 hours ground class room including CBT that Boeing gave us and flight technique compile with company guidance procedure.
	Actually i have question regarding ETOP for Boeing 737 MAX
	as a Technical Pilot B 737 at will intouch with you
	I will give you a call after I discuss with my team on syllaby.
	Best regards
	60

Deputy Training B 737
From: @boeing.com> Sent: Tuesday, June 6, 2017 10:29:27 AM To: Boeing Employee Subject: RE: MAX LEVEL B DIFFERNCES SOLUTION
I would like to discuss what if any requirements beyond the Level B CBT the DGCA has required of you, or if your airline has determined any additional training is required. Please call me today on my cell phone, at your earliest convenience. Do not worry about what time it is here for me. My cell is Thank you.
737 Chief Technical Pilot
BOEING
From:
Sent: Monday, June 05, 2017 8:26 PM
To: @boeing.com>; @boeing.com> Subject: Re: MAX LEVEL B DIFFERNCES SOLUTION
Dear Dear
Updating my cell no is
Thanks
Deputy Training B 737
From: Doeing.com Sent: Tuesday, June 6, 2017 10:21:06 AM To: Boeing Employee Co:
Subject: MAX LEVEL B DIFFERNCES SOLUTION
I just spoke with at his mobile # below. Currently in FFS and busy rest of day. He welcomes you call him this time tomorrow at number below (and attached). The number shall be: Mobile
This would be 11:00 AM time.
Best Regards, Bocing Flight Services Regional Sales Manager APAC
Singapore UTC/GMT + 8 hours

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amended.	do not accept liability for damage caused by this email or any attachments and may monitor email traffic.
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amended.	do not accept liability for damage caused by this email or any attachments and may monitor email traffic.

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From:	@boeing.com>
To:	Boeing Employees
Sent:	5/18/2018 10:38:43 AM
Subject:	tomorrow and upcoming weeks
	10:20 AM:
I can't believe ho	bw they are yanking your chain. Sorry man
	10:20 AM:
It's such a shit s	how
[10:20 AM:
totally	
I'll be shocked if	the FAA passes this turd
	10:20 AM:
They are doing a	all this last minute shit. I really do need to be there to make sure they haven't screwed things up too badly
10.754.0107.010.010.754.0107.010	10:21 AM:
you know they d	lid .
	10:21 AM:
EASA expressed	d their concerns yesterday with the high DR count for SIN. Not going to be easy
	10:21 AM:
not surprisinng	
	10:22 AM:
Nope. Not looking	ng forward to the next few weeks
I was going to ta	ake today off, now I'm making travel changes, and emails. It'll be a lot of overtime this pay period!
L	10:23 AM:
	f your family, be there as much as you can
dump anything y	ou need to on me or the other guys. I leave for my trip next Fri for a week
]10:26 AM:
I will, hope you h	have a good trip around Europe!
Control of the Contro	10:32 AM:
thanks, should b	e fun. 2 new pins in the map for me

From:	@boeing.com>
To:	Boeing Employees
Sent:	5/18/2018 9:18:56 AM
Subject:	MAX Level D
	8:48 AM:
Morning	
Your badge still	worked this morning? :)
	8:50 AM:
lol	
morning sir	
it worked in my	computerbut working from home today so who knows about the office entrance lol!
	8:51 AM:
lol	
Same thing here	
L-,,	k 8:51 AM:
haha	
	8: <u>51 AM</u> :
Just got a reque	
	e spent way more time on this project than I should. And I was because they failed to listen to me in the
first place!!!!!	
Arghhhhh	10.52 AND
	8:52 AM:
yooh i think thou	whated an outre day with you just in case
cause they love	wnated an extra day with you just in case
cause they love	
Either way, not r	much of a response from .
Littlet way, not i	8:52 AM:
haha yaah i saw	
haha yeah i saw	
L	j8:52 AM:
Didn't really say	
1.0.6.1 1	8:52 AM:
i think he's overa	
	8:53 AM:
He should be. It	hasn't been an impressive performance
	8:53 AM:
pretty sure he ha	as a sour taste in his mouth about this team
	B:53 AM:
	we just about scraped through to a yes vote is because of YOUR work. And hugely because of
tireless work	as arouted a guiture of "good enough"
And that is an in	as created a culture of "good enough"
	it it anymore. The cozy days with regulators are nehind us
- It just docont ou	8:54 AM:
veah i'll look to c	get some recognition for
•	a change with that sim group
	ast at the head and start fresh
	8:55 AM:
Yes, he deserve	s it more than anyone. BY A MILE
	18:55 AM:
that team just co	ontinues to piss me off
	cognition, never accountability
	8:55 AM:

It can't be how we do things at Boeing anymore. Out with the old, in with the new I say

Not necessarily people, but attitude!
8:56 AM:
yeah but the quickest way to change a 20 year attitude is to rid the people that drive the attitude not sure your relationship with but i've not been impressed 8:59 AM:
I really like as a person. But to say that using the AMM was very in depth testing??? WTF. The AMM only describes how the system works. What is the benefit to coding the software to a different behavior that the actual system and AMM?
It's a culture issue. It takes 5-12 years (ish) to change culture. Better not waste any time making changes. 9:00 AM:
it is a culture issue for sure
if there's one thing boeing does well is waste time lol!
thats the whole compnay in general not just T&PS
9:02 AM:
Yes, that is true
We have wasted so much time and money on this. And it was completely avoidable
I have used the words "misleading" and "mischaracterization" a lot over the last two years in relation to his program. I
could be even more honest as use other synonyms that even better describe what has been going on.
needs to make changes here before 777X
9:06 AM:
i feel like less about this stuff
his vision is all about more business development
not the operational side
operational side in his mind will take care of itself
my opinion at least
9:12 AM:
probably true. Hope sees things differently
This must cost and arm and a leg though
9:15 AM:
yeah we'll see
nearly impossible to capture the true cost of all this
imagine the enormous OT travel letc

From:	@boeing.com>
To:	Boeing Employees
Sent:	5/15/2018 1:36:27 PM
Subject:	Conversation with
	Commence of the commence of th
	9:02 AM:
you on a call?	
9:02 AM:	
Yes but it isn't importa	ant
Just TRB	
	9:02 AM:
Ok, need to chat with	you
9:03 AM:	
Did you accept the Ya	aw Damper runaway malfunction in it's entirity?
OK - do you want me	
A	have to change the release notes that said the issue wasn't on offer but has issued a closure
	ne saying that the issue that wasn't on offer was accepted in the load it wasn't meant to be checked
with	Se can't a great and a second mean is last asset as the collection of the second as a second as a collection of
9:58 AM:	
	the following from my opinion:
	DRs - quantity touching almost every aircraft system. Failure to meet targets, duration of open DR that
	f closure, ECDs for certain systems being pushed to late 2018 or 2019
Unknowns -	
Tiller control loading - re underperfoming state	equires another sofware update to an already froxen load and the best it does it restore the tiller to the known
Air conditioning - now co	ompromising sound QTGs - these tests form one of the two critical elements of the Level D update
Model crash, EGPWS T	ERR FAIL or major model overrun
Visual - models, aliasing	g, and lens movement
QTG issues - FAA have	e raised concerns over the resource data for 1b3 and provided a list containing other failures
Resource Constraints	- do all parties have sufficient resources going forward to prioritize Boeing issues?
10:03 AM:	
My guess, the vote w	ill be 5-3
or 6-2	
	10:19 AM:
did lget a hold of	you?
10:22 AM:	
	peen thrown to the wolves
His vote is deferring to	o me
Final list:	
	g DRs - quantity touching almost every aircraft system. Failure to meet targets, duration of open DR that if closure, ECDs for certain systems being pushed to late 2018 or 2019
demonstrate slow rate of	Tologare, Eodo for certain systems being pushed to late 2010 of 2018
Unknowns -	
Tiller control loading - re underperfoming state	equires another sofware update to an already froxen load and the best it does it restore the tiller to the known

Air conditioning - now compromising sound QTGs - these tests form one of the two critical elements of the Level D update

Model crash, EGPWS TERR FAIL or major model overrun

Visual - models, aliasing, and lens movement

All the time the sound / tiller are being worked is time that the TRU QTG specialist is not resolving QTG issues

Training - IPSS indicates no training scheduled on this device for some time so what is driving the requirement at this time?

Resource Constraints - do all parties have sufficient resources going forward to prioritize Boeing issues?
10:24 AM:
уер
10:36 AM:
have you talked to he seems to be the only other pilot on the call
10:36 AM:
Thave not
I doubt will call in
10:36 AM:
Landan and
Nor I - works for that is why I was asking
10:37 AM:
Let's see how they do this
]0:37 AM:
ok
10:37 AM:
I wonder if is just lisening in
, listening
10:37 AM:
maybe
10:55 AM:
We know where √ vote is going
10:55 AM:
l know
Are you wavering?
i just forwarded the meeting notice as he asked if SM were on the call - didn't realise it went to
I'm doomed
10:56 AM:
Nope, not wavering
It's a no
10:57 AM:
ok - me too
10:57 AM:
If it's a yes they would have 48 hours to fix the master caution and tiller for F&S to be signed
I really would struggle to defend the sim in front of the FAA next week
10:58 AM:
Land
And what if somebody books training next friday?
10:59 AM:
Exactly, when it's qualified it is ready as far as I am concerned
11:00 AM:
They are not looking at it like that - just like no external customers use NG#1
11:02 AM:
ok so no problem then!
11:02 AM:
ye olde magician trick
11:02 AM:
If they nearly walked off last year, then they will probably be very happy to see it again I'm sure!
11:02 AM:
of course
And some of the older issues too
11:10 AM:
Is that correct?
11:10 AM:
They are not declared on any of the other visuals
11:10 AM:
the contract of the contract o

same on all our devices?

11:10 AM:
simulators even
11:19 AM:
They are desperate for a go
11:19 AM:
No kidding
11:19 AM:
Every system is impacted by DRs - how do you work around all DRs?
11:20 AM:
I got it from him about 6 weeks ago
I agree
Thank you
11:21 AM:
He will be picking up the pieces
11:21 AM:
yep
11:25 AM:
Got your night vision goggles? You'll have to do qual with the lights switched off
11:26 AM:
haha
11:27 AM:
this isn't a true statement - the campuses declined the newer loads
11:27 AM:
Yes, I still haven't been forgiven by god for the covering up I did last year
11:27 AM:
None of this changes my mind
11:27 AM:
Can't do it one more time. the Pearly gates will be closed
11:27 AM:
Landan and the state of the sta
Liust received a shovel to start my journey to the hotter place
I just received a shovel to start my journey to the hotter place
11:28 AM:
[11:28 AM: I'll end up there either way. There is no way anyone involved in iLC does not end up there.
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it sounds like it to me
1:37 AM:
that's system checking isn't it?
11:37 AM:
yes it is
11:38 AM:
So qualified or not qualified makes no difference
11:38 AM:
<u> </u>
I'm not sure, but it wouldn't be hard to check
11:39 AM:
What of the irreparable damage to the Boeing name if it fails?
11:39 AM:
exactly
11:39 AM:
Binary could be dead in the water
11:40 AM:
good shape for QTG?
Application and American
11:41 AM:
not as good as people think
And certainly not for CAAS
So it was a turd but now it is slightly polished
11:48 AM:
I believe them. They did get everything fixed between each iLC qual last year. Right?!?!?!
11:48 AM:
Of course they did - it's all documentation
Bold claim
11:48 AM:
of course!
Not issues here
1:49 AM:
lana arang arang arang di kacamatan di kacam
Imagine now that it fails for a Binary reason
11:49 AM:
That was bold
At least they delivered on 0 DRs a week ago
Wait a minute
11:53 AM:
And that was the official answer - we are going
11:53 AM:
lol
This is just a waste time, going through the motion. Let's see how the campus votes
what. The product is high quality!!!
The binary group just confirmed it
11:55 AM:
it all relative
11:56 AM:
Vision in the second control of the second c
lol
11:56 AM:
And now the backside covering happens
11:59 AM:
hmm, did not see that coming
11:59 AM:
Money
1:15 PM:
Let's see what happens over the next two days
There's going to be a lot of pressure on us to say yes
parameter and the second secon
Indeed - won't be on the call on Thursday
will say yes has said the tiller is back the way it was, calibrated, and QTGs passing

1:16 PM:
ok
1:16 PM:
So it comes down to air conditioning - but still may say no
1:16 PM:
Will you still vote no?
If they fix it, will you say yes?
1:16 PM:
If hinks there is a regulatory issue, the answer will be no
1:17 PM:
I will have to talk to him before then
1:19 PM:
Yes - but you are in a quandary. asked if there were any other issues that prevented a Go beyond tiller/sound/master caution
1:21 PM:
That's true from a pilot perspective, but there are other issues too, like the QTGs, blanking screen etc
1:22 PM:
I know - that is what people aren't considering
1:23 PM:
It's the overall simulator. I could be "happy" from the pilots perspective, even if I am on the edge, but the issues that don't affect pilots are still significant
Exactly - people have acquired tunnel vision - they are concentrating on two issues when there are hundreds more

From:	@boeing.com>
То:	Boeing Employees
Sent:	5/14/2018 4:50:02 PM
Subject:	Conversation with Boeing Employee
	Annual Company of the
	3:20 PM:
	nis meeting notice?
My outlook doesn	
	ad, but the meeting notice is not there
}:21 PM: Sent	
,	3:22 PM:
so weird, it does r	ot show in my calendar on the ipad
:23 PM:	
STrange - sei	nt it twice - I'll try the other one
	3:24 PM:
It shows up on my	company phone, but not on ipad. And my outlook asks me to sign in but does not accpept my sign in
24 PM:	
	nce the last Windows update
Try quitting outloo	k and restarting
I find now I have t	o do that if I switch networks
	3:25 PM:
l did	necessifi.
3:25 PM:	
Ahhh	
	:25 PM:
Leven shut down	the computer
3:25 PM:	
That isn't good	
	3:25 PM:
Let me try differer	t network
	3:29 PM:
still not working	HANDING THE STORY
3:29 PM:	
That's strange	
Might need IT to h	elp
	3:29 PM:
Yep	n-manad
3:31 PM This message	wasn't sent to
Yep	Indiana de la composition della composition dell
	:35 PM:
hmm	and the second s
lets see	
:35 PM:	
What do you mea	n - it is a YES
	:35 PM:
haha	
:35 PM:	
There is one grou	p and we aren't it
	}:36 PM:
your vote is the sa	
7	71

3:36 PM:

The fact that it has taken 6 hours to review the outstanding DR	s speaks volumes to the state of the device
3:39 PM:	
No and No	
3:39 PM:	
yes	
B:39 PM:	
N0000	
3:39 PM:	
L	
I am concerned on both	
.00	
:39 PM:	
So am I - more SDSRs need to be raised on the QTG	
Not sure if they can be turned around in time	
You better start drinking the koolade	
H 3:40 PM:	
hmmm	
Let's talk tomorrow morning before the call	
40 PM:	
So get ready to lift the carpet, break out the brooms and start s	weeping
8:41 PM:	
The fact that this call took this long kind of proves where we ar	
production of the state of the	•
3:41 PM:	
Exacty	
3:42 PM:	
what???	
sound fails?	
3:42 PM:	
And there goes the final nail into the coffin	
3:42 PM:	
final?	
3:42 PM:	
I have some spares	
:43 PM:	
I think there will be more. At this point there are more nails that	wood in the coffin
B:45 PM:	Trood in the sound
Get silencer, put on end of gun, place adjacent to temple, and	cull triagar, the problems stop
At this point, how can they consider continuing?	out trigger - the problems stop
parameter and the contract of	
3:50 PM:	
(facepalm)	
3:50 PM:	
(facepalm) (facepalm) (facepalm) (facepalm) (facepalm)	
(facepalm) (facepalm) (facepalm) (facepalm) (facepalm)	alm) (facepalm) (facepalm)
3:51 PM:	
(lalala)	
3:56 PM:	
That pretty much settles it then	
3:56 PM:	
It does in my view	
3:57 PM:	
Do you know what the final DR count is for tomorrow?	
₿:57 PM:	
1 minute total is 178	
P1 = 0	
P2 = 9	
P3 = 107	72
1 🗸 101	

	P4 = 62
	Now you have to factor in failing sound, unnecessarily high ambient noise etc.
	May be 7-12 RFRs/RFIs which I can check on Saturday when I arrive
	Tiller unknown and only being checked after Go/No Go
	I can fix 5-6 more with the malfunction descriptions
-	:07 PM:
	A new load has to be taken at this point anyway to deal with the calibration of the tillers
-	4:07 PM:
1	just talking to
1	‡:08 PM:
L	How is that working out?
1	10 PM:
L	Hmm, same as always
	Not going to get anywhere
	just getting a history lesson in URT
_	Same as every other time
	4:14 PM:
	Oh - not good and no progress
	was right on the call though - whether the FAA express verbally that they want a dynamic scenario, if they do not
	demand it in the regulations, there is no need for it to be supplied
	I'm calling it a night - only an 18 hour day today
	Must be slacking
	Speak to you tomorrow
The same of	4:38 PM:
	haha, tha's disappointing. I just did a 19 hour day (if I count the sleeping I did last night!)

From:	n@boeing.com>
To:	Boeing Employees
Sent:	3/22/2018 9:25:37 AM
Subject:	Conversation with Boeing Employee
	Leader and a section of the section
2:31 P	PM:
Are you dialling in to the	meeting?
2:32 PM:	
Yes - 2 minutes	
2:32 P	M:
cool	
2:33 PM:	
I'm on	
2:35 P	'M:
This is weird	
'm not 100% sure what	to do with
2:36 PM:	and the DD core average data
	eave the DR open awaiting data
We can downgrade the	s right before allowing it to be closed
2:38 P	
Ok, sure	IVI.
2:38 PM:	
But leave it open	
The state of the s	up if a regulator spots it again - EASA and UK CAA will likely test it
2:45 P	
You ok with that?	
2:45 PM:	
I'll check it but they are	just dispositioning DRs again - will take the video and send it to all parties
2:57 P	M:
Seriously?	
2:57 PM:	
Its a bloody joke	
8:01 A	
And the first terms of the first	anted to see how discussion ended yesterday
8:04 AM:	
November	poor connection - as soon as you dropped off line started stating you had accepted it all in
	th the whole thing - they fail to understand that the pilots subjective feedback is as important as
	onditions that pass or do not show the full picture
I'll charge my phone dur	
8:07 A	vM:
I didn't quite catch what	you were saying yesterday about the complaint from LGW in regards to go-arounds, what is their
concern?	
8:08 AM:	
Pitch oscillation during f	
FD commanding descer	nt .
Autopilot descending	
8:09 A	UVI:
ok :09 AM:	
	hat could they possibly know
B:23 A	

Hope that came across clearly

8:24 AM:
It did but they don't understand they will be getting this from every customer of the Binary
They are not equipped to deal with this product in their current capacity
They will not just be dealing with TDMs but operators
8:31 AM:
This call is a waste of time
It has digressed from what was planned and turned into the same old blame game and ego fluffer for in the
CAE-glory days
hasn't worked there for 15 years
8:35 AM:
So frustrating
8:35 AM:
I know - fails to realise that having engine malfunctions insertable at low power is not an improvement, it is a
requirement
Most engine malfunctions need to be inserted at high power - therefore they have no use in the training environment
8:36 AM:
Exactly, that's why their prioritization is important.
8:36 AM:
The risk is by not declaring this as such, the FAA will raise each failing malfunction as a NQT
8:36 AM:
<u>exactly</u>
B:37 AM:
has never ever worked for an airline or training centre
So has no understanding beyond initial device qualification
8:54 AM:
Jesus!!!
B:55 AM:
on the call :)
8:55 AM:
who is?
8:55 AM:
They do not understand the liability we as a company are taking on
Jesus
8:55 AM:
haha!!!!
* Control of the Cont
i j9:10 AM:
That was a complete waste of bloody time
How is a lack of sim support and Binary resources our problem?
9:10 AM:
It was, except I'm glad I got my points across. I think they are getting to target fixated, can't the forest for all the trees
It really isn't. Staffing levels is someone elses fault
9:11 AM:
Why are they only listening to you now?
9:11 AM:
and problem
I don't know. Better late than never I guess, they apparently like to live on the edge!
9:12 AM:
Not sure if I will be returning in April given this - am not lying to the FAA
Not sure if I will be returning in April given this - am not lying to the FAA Will leave that to people who have no integrity
Will leave that to people who have no integrity
Will leave that to people who have no integrity 9:13 AM:
Will leave that to people who have no integrity 9:13 AM:

From: To:	@boeing.com>
Sent:	12/12/2017 8:43:40 PM
Subject:	Conversation with
8:35 PI	И:
	online. Go enjoy your family
***************************************	8:35 PM: he computer down!
	you doing on this late?
8:35 PM	Л:
ok good	
	8:35 PM:
who are	
8:35 PM	
I have a call with	to discuss MAX
they're idiots	
<u></u> .	8:36 PM:
Ahthe HUD stuff	
8:36 PM	The same street of the same stre
the morons who to	
if that's a workd	A in India is apparently even stupider
work	
word	
I'm drinking obviou	sly
	8:36 PM:
Sounds about righ	
8:37 PM	
and I do this agair	Thurs night with in India
	ot the slot at midnight on thursday evening for landings?
8:37 PM	
more stupidity	
yes	σ
	gs, no instruments right?
V	8:37 PM:
	have to actually travel to India
8:37 PM me you and	pparentl
	8:37 PM:
No instrument	
8:37 PM	Л :
у	
ok good	
EFF that	
so stupid	8:38 PM:
L	You can do you landings and get out
	andings
8:38 P	
u sure?	
I don't mind stayin	-
	8:39 PM:

	Absolutely. You work 1000% harder than me, and anyone each and every day. I think I can hang around another few minutes!
	Let me know if you need help with -10 estimate. I don't mind doing it. I can do it tomorrow
	8:40 PM:
	not true, but thanks. OK, I'll bail after my landings, which will be terrible as you know. I was supposed to do the -10 estimate today, apparently I way over added to it accidentally, so now I need to un-screw.
	that
	I don't like PM crap
	I just like airplanes, football, chicks and vodka, not in that order
	8:41 PM:
	Nope, PM sucks. At least I didn't do one this summer! First one for a whole year!
	haha, make sure you the order right!
	8:41 PM:
	No I meant Project Management
	not our stupid end of year PM
	I don't care about that crap
Ĺ	8:42 PM:
-	Ahh. yes. Same here. Hate, hate, hate it. So glad we had
	B:42 PM:
	I work hard and let it play out
-	it's garbage
İ.,	
	Again, let me know if you need help
	8:42 PM:
	will do
i.	8:42 PM:
	Signing off. Have fun with
	See you tomorrow
_	8:42 PM:
	now go drink with your wife and play with your boys
	and kick the dog
<i></i>	just kidding
L.	8:43 PM:
r	haha, kick the wife and play with the dog!
L	8:43 PM: NO!
	divorces are too expensive!
	see ya tomorrow
	cheers1
	1
Γ	8:43 PM:

See you!

From:	@boeing.com>
To:	Boeing Employees
Sent:	6/5/2017 11:19:13 AM
Subject:	Conversation with
ous,joot.	
6:54 P	
	wick. First day in sim tomorrow
6:55 PM:	
how were the flights?	
6:55 P	
	you dont mind, so that i can keep up to speed with what is going on at home, in particular RTL and
wind additive	ird business coat leveut on
6:55 PM:	ird business seat layout on
i	in MIA has the overrun and speedbrake warnings activated, or capable of being activated?
6:56 P	
	bably choose another airline over their 787
	re of an email right now to find out
6:56 PM:	
I already sent one to	
6:57 P	
Good	
6:57 PM:	
Now friggin migl	ht need a sim to fly the MAX, and maybe because of their own stupidity. I'm scrambling trying to
figure out how to unscre	w this now!
idiots	
6:58 P	M:
WHAT THE F%\$&!!!!	
But their sister airline is	already flying it!
6:58 PM:	
I know	co we can thru this with the DGCA
not sure if this is Lion's f	so we can thru this with the DGCA
6:59 P	
	d me to go down for a day while im there, not ideal but if we have to we have to
7:00 PM:	The to go down for a day while in there, not lacer but if the have to
	s coming for the delivery so we can always get him there
	making a training determination on Wed, so that's why I'm trying to jump on this tonight with them
7:01 P	
You definitely want to be	e in front of that one!
Unbelievable, when will t	these curve balls stop coming
7:01 PM:	
its unreal man	
	ımmer we'll be ok, in theory
7:02 P	
haha, I do recall saying	and hearing the same thing at the end of last summer!!
7:02 PM:	
ha! good point	
little did we know	AV and Clight Director greation from 1403
	AV and Flight Director question from to?
7:03 P	м:] he has helped me out recently
Prbably Or if it is more FMC the	
Or both	

7:04 PM:

ok,	is claiming they're having level off issues with the split cue FD now that they've switched to
	7:04 PM:
What	?? No, I've never had an issue.
l'II fwo	7:06 PM:
Cok	7:07 PM:

From:	@boeing.com>	
To:	Boeing Employees	
Sent:	5/1/2017 3:38:16 PM	
Subject:	Conversation with	
9:04 AM:		
	ld be the big impact for a customer to move from EASA AFM rules to FAA AFM rules?	
any big show stoppers	to be the big impact for a customer to move normalization of the rules to the transfer in rules:	
9:04 A	M:	
Not that I know of		
9:04 AM:		
some autoflight rule cha		
the perf be a bit less co		
9:05 A		
Yes, seems less restrict	tive in FAA	
9:05 AM: anything else?		
9:05 A	ıM·	
	in the FMC is only 0.2 g instead of 0.3 g	
with FAA rules	the first term, the grant term of	
9:05 AM:		
is that in the AFM?		
9:06 A		
I'm not familiar enough v	with the AFM, I'd say run it by	
9:06 AM:		
I am now, he's not really	A CONTRACT OF THE CONTRACT OF	
9:06 A		
9:09 AM:	eview them. Contrast and compare	
ok i'm going to need you	u to do that. I'll have send you	
data	a to do that. Three constraints	
we'll chat about it at the	10am	
9:09 A	IM:	
Please do, I'll look at it		
	vording for the U13 issue, we need to agree on what to add	
9:11 AM:	the grown expectional impacts // instable on differences and ifficulty for	_
	the pure operational impacts/limitations differences specifically forit looks like the pure operational impacts/limitations differences specifically for it looks like the pure to convert to FAA rules to simplify AFM approval by their GCAA. It's really	Е
complicated, I'll explain		
	Ise the performance differences	
9:18 A	ıM:	
Ok, sounds good		
9:21 AM:		
	raveling to MIA tomorrow for the week I just won't have the time	
9:25 A		
9:26 AM:	e one for the team at the moment!!!	
we all are		
12:05 PM:		
Control of the Contro	ne ecab for on the 9th?	
12:16		
I did		
12:16 PM:		
cool thx	80	

12:26 PM:
check out the pics of the pilots in that brochure sent! They look like 12 years old! JESUS!!!! They don't look old enough to drive, or drink!
12:58 PM:
are you going to fly the sim week of the 8th afterall or no? I think you said it needed to be June right??
1:06 PM:
its in june, still waiting to hear from
1:06 PM:
Ok
when will you be doing the Gatwick cert again?
1:48 PM:
Sorry, had to take puppy for a walk. She was going crzy! Gatwick is June 19-23
I'll go there straight from Singapore
1:57 PM:
welcome to puppy ownership!
H 2:00 PM:
that's why i had stay home. I will catch up now
2:00 PM:
never a dull moment
2:22 PM:
I find it hard to believe thatclaims he's never felt the "deadband" on rotation don't you?
2:23 PM:
I really do, it is definitely something you mention in training. Almost everyone gets stuck in the deadband on the first few
rotations, you gets used to it real quick though and can easily achieve an even rate
I just hope all these courses get approved
2:24 PM:
I do too, although part of me wants to see it fail so we can say, "WE TOLD YOU SO!"
that's kinda sick of me, huh?
2:24 PM:
I will probably meet the minimum requirements though
2:26 PM:
we'll see
it's a complete S#!T course, they should have stayed with CBT
and I'm going to MIA to supposedly help brag about our "new and innovative" training course. BARF!
2:27 PM:
Yep, they bought the toys and then tried to fit some sort of training into it. Completely backasswards
It sucks selling shit!
2:28 PM:
fortunately I have all the skills of a used car salesman, and I have the ability to use the jedi mind trick
2:30 PM:
Does the last sentance that I added make any sense?
CRZ DES provides the means of initiating step descents to a new cruise altitude during cruise.
During VNAV operation, execution initiates a descent at 1,000 feet per minute and cruise target speed to the new altitude.
The FMC software allows a CRZ DES to the normal Descent Path capture if the normal path is
encountered during the Cruise Descent and prior to reaching the new cruise altitude.
the Descent phase will be entered from a Cruise Descent at the time the extended descent path is captured. Note: CRZ DES will not capture an extended descent path if the CRZ altitude and descent altitude constraint are the same

Note: CRZ DES will not capture the normal Descent Path if the CRZ altitude and descent

I like the 2nd one
2:32 PM:
Do you think it's clear to pilots? The FCOM is such a mess, they are confusing CRZ DES with the new
in so many places
2:33 PM:
does it say anywhere how you actually do the CRZ DES?
[2:34 PM:
That is the whole section right there!
2:34 PM:
it doesn't mention use of ?
it doesn't mention use of the second
what does it say about that switch? Did they cross reference them?
2:34 PM:
Total contract the contract of
No, they put that in 3 other places though!!!
I'm telling you, no wonder pilots are having problems reading the FCOM, we scatter stuff around in so many places
They actually describe CRZ DES in the early descent section
when you use
2:48 PM:
egads
2:49 PM:
MESS!!!
2:57 PM:
go ahead and bounce your proposed fcom update off in reply to his email
see if he thinks that makes sense
3:08 PM:
I just want to float it internally and clean it up for them first
3:10 PM:
0k
3:23 PM:
Let me know when you want to talk AFM
3:23 PM:
ugh, I'm leaving soon, I may have to call you on the way home, will that be ok?
3:23 PM:
Absolutely
3:24 PM:
ok thx
we're going to buy a bed first, but I'll call after that, probably like 430ish. If I haven't called by 5pm call me ok?
3:24 PM:
Will do, I can take a call at any time this pm/evening.
Get a good one though, I'm so sick of all these beds sold as the best thing ever actually ending up with big dips in them!
Cheaper beds are better for my back
3:27 PM:
we're gonna try the sleep #. Every other bed has sucked
3:28 PM:
Let me know how that works, I'm in the same boat. It messes my back up. I sometimes have to sleep in the guest bed
just for my bed
back
3:28 PM:
will do
although I won't be sleeping in it til June at the rate I'm travelling
3:29 PM:
true
H MO co.

From:	@boein	g.com>
To:	Boeing Employees	
Sent:	4/26/2017 12:03:48 PM	.i
Subject:	Conversation with	

11:06 AM:		
I'm going to bed now, le	eave in 8 hours for airport. I'll land around	1230 Thurs. Anything before I sign off til then?
11:06		
Nothing on fire!		
Try to get some shut ey	ye before the flight	
11:07 AM:		
excepti		
and my shit		
11:07	AM:	
true		
]11:07 AM:		
and all the bulletins that		
11:07		
That and a million other	small issues	
11:07 AM:	20 Aug 20 Aug 20 Aug 20 Aug 20 Aug 20 Aug 20 Aug 20 Aug 20 Aug 20 Aug 20 Aug 20 Aug 20 Aug 20 Aug 20 Aug 20 Aug	
	er else I've dropped the ball on	
11:07		
		een done a class 1 airports, Moses lake is class 2
Let's see how that goes	5	
11:08 AM:		ti
	e get away with only using MWH in our type	e rating course, cuz it's 142?
11:08		at and the detailsis "weaking" withtee
	nt from what she is looking at. I don;t under	stand the detailsj is "working" withjtoo
11:10 AM: WHAT A MESS		
	0.04	
11:11 Anything TD touches	AIVI:	
11:17 AM:		
	on those useless bags of #\$@% the last	Zwors
	ut together a killer perfect course if that wa	
and done it in like 3 mor		is all we had to do
11:18		
	waste of time, effort and money that was o	ompletely avoidable!
I agree, a fraction of the		
11:18 AM:		
ridiculous		
11:39 AM:		
OMG, as if I wasn't con	nfused enough is trying to say it wor	ks per design!
11:39	AM:	
Sounds like a sucky des	sign if that is the case	
11:39 AM:		
why the hell would they	build a cruise descent that only works form	n the initial VNAV path!
11:39	AM:	
doesnt make sense to r	me	
I'm pulling some FMC re	elated FCOM pages for them to review	
11:41 AM:		
terrible design, and ther	re's no way the FCOM covers this only app	olies to the initial path. This needs to get fixed if that's

the case. Which means we need to tell crews NOT to use this via yet ANOTHER OMB if you agree go ahead and stress that on the next 50 emails that ensure. I need to go to bed, I'm running on like 2 hours

sieep	in last 30 or so
	11:42 AM:
Get s	ome rest!
	11:42 AM:
I'm iu	st praying the musical porn show doesn't start up again at 3am
	11:43 AM:
1 1 1 1 1	e
LIVIA	D!!! Hey, its free porn!
L	11:45 AM:
who o	cares when you're exhausted
I'm fr	ggin delirious dude ,,
betwe	een this FMC crap, the issue, and everything else I'm spent
	11:47 AM:
I het	you need some time off!
f Doct,	<u> </u>
İ,	11:50 AM:
_	ah! we all do!
by we	e, meaning the 737 group. the rest of the slackers can pick up our work!
	11:50 AM:
The F	MC ignores the altitude????? WTF!
	e! We should get them to do CS3s for us
	11:51 AM:
right?	
-	
	ind in Vol 2!
this a	irplane is designed by clowns, who in turn are supervised by monkeys
L	11:52 AM:
Soun	ds like they are implying that the description is correct, unless you get a change to clearence!
	11:52 AM:
piss r	oor design
[11:52 AM:
Thic I	FMC shit must get much better
11115 1	The second of th
	11:52 AM:
	ke you said, if I enter a new altitude or AS constraint, I expect the cruise descent to figure out the new path to it
	n sure it'll get better when Boeing engineers design a whole new one
wait?	Who is left to do such a thing?
į	11:53 AM:
no on	e!
	jot a call on it this morning, they expect to do only two sets of 1 weeks airplane testing!!!!
[11:54 AM:
1,	can do it, I'm sure he's bored now
	11:54 AM:
Norm	ally the FMC is tested during an entire flight test program, like the 787 or 737 MAX
	11:54 AM:
jesus	it's doomed
any c	ab testing like we asked for?
	11:54 AM:
Leaid	that we must do much more than that,
	eed lots of operationally simulated testing
using	the FMC the way pilots do, not engineers and engineering pilots flying between BFI and moses
<u></u>	11:55 AM:
	w we're going to pursue airplane design changes to the -9 to add poor man's tailstrike protection. expect to see a
	otice on it for tomorrow
this fo	or the Lissue
T	Patrik H 11:55 AM:
haha	just what we need!
	just what we need: just patch the leaky boat
LCIS	
	11:56 AM:
	4 options, the one that I felt sucked the least, and had the least potential for full sim training was using the
	onality.
	put from pilots was very limited. The 4 we tentatively brought forward to include Spoiler Pitch
Augm	entation, Elevator Feel Shift, TSP Annunciation, and Flare Guidance.

11:56 AM:		
We have to go with the least impact op	tion. Doing nothing doesnt seem to be an option	
11:57 AM:		
11:58 AM:		
11:58 AM:		
I don't see any of these flare assist opt	ions won't trigger sim training by	
11:58 AM:		
I agree	en-	ra e
11:58 AM:		
that's for these smart engineers to figur	re out	
11:59 AM:		
Yep		
12:01 PM:		
alright, I can't keep my eyes open. 11p	om here, 6am wake up. chat with you Thurs.	
12:01 PM:		
nite, nite!		

From:	@boeing.com>
To:	Boeing Employees
Sent:	1/31/2018 9:38:16 AM
Subject:	Conversation with
9:1	6 AM:
said	cooridnated it on the way to Russia. I asked him for any email trail
L	17 AM:
	but did not know if there was an AR pilot
	2 AM:
from	
told me that	he didn't believe there was any discussions with the cert pilots on this.
(tmi)	
	o mess up at least one thing during this whole process
9:2	24 AM:
not good, but thir	nking, why this is a big impact?
9:2	7 AM:
alerting philosoph	vere never told this was coming, they didn't properly evaluate if for cert purposes, to keep with our my for engine indications, that turning the oil temp amber for 31C and below is required.
	into the FCOM without them knowing. you know they don't actually review the FCOM al note, I kind of belittled on that call yesterday stating we did coordinate it with the Model ARs
	it looks like we didn't
probably the only	
r	30 AM:
but remember the	e whole issue about the engine instruments not indicating a green range? somehow that was certified on
	. that i believe is a bigger issue than this one
9:3	7 AM:
didn't	have it on the Tues agenda
	38 AM:
ck email in a min	ute, have some info on why only white ranges is acceptable

From:	@boeing.com]			
Sent: To:	12/12/2017 9:44:16 PM 	@boeing.com]		
Subject:	Conversation with Boeing Employee	l		
	\ <u>\</u>			
ļ				
jesus, get o	ff the computer and go drink with your wife!!!!			
	9:17 PM:			
been there	namad			
taking some	e time off late next week			
	9:19 PM:			
good				
this is garba	age that 3 of us are online right now, and I had to boot off 30 min ago			
	age that a characteristic right heri, and mad to acct			
flex or OT				
garbage tha	at we're working this hard			
	9:19 PM:			
that is the s	itory of the 737 group			
i know but	9:20 PM:			
i know but we need to be able to justify replacing				
not that we	can			
	9:20 PM:			
agree and a	agree			
its a fine lin	e			
no it's a BS	line			
):22 PM:			
yeap				
grey goose	is vummy			
are you just	i9:28 PM: : starting? or just going?			
half way				
	9:29 PM:			
funny, i was	s having some Bowmore Scotch, very good			
	9:29 PM:			
also tasty				
I just jedi m	ind tricked this fools.			
I should be	given \$1000 every time I take one of these calls			

I save this company a sick amount of \$\$\$\$

	P:31 PM:
	what did you convince them of?
	9:31 PM:
	to simply produce an email from me to the DGCA that states all the airlines and regulators that accept only the MAX
	CBT
	to make them feel stupid about trying to require any additional training requirements
):33 PM:
	well done, i give you a raise. all you need to do is go to and accept it.
	9:33 PM: sweet, and I give you the same!
í	
į	yeah
	}:35 PM:
	now go sign off
):36 PM:
	i will soon
	[]9:36 PM:
	NOW!!!!!
	9:36 PM:
	kids and the wife are watching a show that i am not interest in
	9:36 PM: unless it will help you flex with the kids next week
	yeah, Thur off next week
	A 9:37 PM:
	sweet
	I'm doing smae
	same

From:	Boeing Employee	
То:	Boeing Employees	***************************************
Sent:	2/25/2016 7:57:28 AM	
Subject:	RE: For 2pm	
Strict FAA manage. We are earlier that the instructions in andle our blender the D6 document eally describe who we that in how dischanges with abstruction to list what would have helpe (or rejecting). No	ole issues that led to the crisis in confidence — gement on previous programs (747-8, 787-8) an we typically would be (people are used to a "firm" aero con the order relative to TIA (states/implies strict transition from ad approach well which leads to different interpretations at for TIA instructions/requirements are too vague. Because that we are doing relative to the airplane configuration after The ifferent systems groups are addressing the issue. Some just colutely no details of what they are doing to support their certitative were doing. A clean story of what we are really doing to details. Thus there is no confidence that the FAA is upported that ARs are doing the right thing in "concurring to confidence that ARs are doing the right thing in "concurring to confidence that ARs are doing the right thing in "concurring the confidence that ARs are doing the right thing in "concurring the confidence that ARs are doing the right thing in "concurring the confidence that ARs are doing the right thing in "concurring the confidence that ARs are doing the right thing in "concurring the confidence that ARs are doing the right thing in "concurring the confidence that ARs are doing the right thing in "concurring the confidence that ARs are doing the right thing in "concurring the confidence that ARs are doing the right thing in "concurring the confidence that ARs are doing the right thing in "concurring the confidence that ARs are doing the right thing in "concurring the confidence that ARs are doing the right thing the confidence that ARs are doing the right thing the confidence that ARs are doing the right thing the confidence that ARs are doing the right thing the confidence that ARs are doing the right thing the confidence that ARs are doing the right thing the confidence that the confidence that the confidence that the confidence that the confidence that the confidence that the confidence that the confidence that the confidence that the confidence that the confidence that the confidence that the confidence that t	of that there is no plan laid out to IA and getting to certification. You t say they will address post TIA ification tests. Others went to great o get from TIA to cert tests to cert understanding what they are accepting occeptable for post TIA configuration
Vero-Stability&Cont	rol, 737MAX & AR Advisor	
********	**************************************	
r you can't get a hold	of me, please contact	
Sent: Thursday, F	ing Employee ebruary 25, 2016 7:35 AM ng Employees	
Project Administrat	or	
Boeing Regulatory		
sconing i regulatory	/ Milliot dto//	

From:	Boeing Employee
To:	Boeing Employee
Sent:	11/22/2015 9:32:44 PM
Subject:	FW: !!! Important Help Needed!!!EASA RSAT/RCAS ECD dates
From: Boeing Emplo	
To:	vember 17, 2015 2:21 PM Boeing Employees
Cc:	Boeing Employees
Boeing Employee	water with the state of the sta
Subject: RE: !!! Im	portant Help Needed!!!EASA RSAT/RCAS ECD dates
The FAA AFG refu	ses to negotiate the training level determination for either RSAT or RCAS until the TIA is
	review it with the SACO pilots. We've got their preliminary approval of the RCAS CBT, based
	at CBT is currently being revised. Now that we know the scope of the RSAT alerts that will be
	ork to finalize the RSAT CBT. As we understand it now, the RSAT functionalities to be certified
along with RCAS at	re ORW (in air and on ground), PRW, and the SPEEDBRAKE alert. If this is not correct,
someone needs to	let us know that.
To be clear, just be	cause the AEG approved the RCAS CBT, that does not mean they approved the CBT as the
1	ed. I'm fairly sure they will push to have at least the ROLL AUTHORITY alert trained in a
simulator. We are	going to push back very hard on this, and will likely need support at the highest levels when it
comes time for the	
as the min training r	required for RCAS. Failure to obtain Level B training for RCAS is a planet-killer for the MAX.
We can also expect	t the AEG to push for simulator training for some or all of RSAT. We will also be fighting
against this as well.	
We are well prepare	ed to have this training level discussion with the AEG for both RSAT and RCAS.
If you need more in	nformation, please let me know.
ii you'iloou'iiloio iii	normation, please let me talew.
Thank you,	
737 Chief Technical	Pilot
Ø BOEING	BOEING EDGE Flight Services
	i ilg it doi viceo

Sent: Tuesday, November 17, 2015 2:02 PM To:
How are we doing with the flight crew training requirements? From: Boeing Employee Sent: Monday, November 16, 2015 10:58 AM To: Boeing Employees Subject: RE: !!! Important Help Needed!!!EASA RSAT/RCAS ECD dates Great news! Boeing Commercial Airplane Group 737 Systems Chief Engineer Blackberry: Fax: M/S 9W-18 From: Boeing Employee Sent: Monday, November 16, 2015 9:21 AM To: Boeing Employee Subject: FW: !!! Important Help Needed!!!EASA RSAT/RCAS ECD dates
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Subject: FW: !!! Important Help Needed!!!EASA RSAT/RCAS ECD dates
This is great news!!!! See below!
per-entered to the second seco
Senior Leader -
Avionics (Displays, Navigation, Inertials, RSAT, Software/AEH)
Boeing Commercial Airplanes
Tel. (Desk)
Text/Cell
Email <u>@boeing.com</u> FAA Authorized Representative Areas: IMA, Displays
FAA Authorizea Representative Areas. IIVIA, Displays
From: Boeing Employee Sent: Monday, November 16, 2015 2:54 AM
To: Boeing Employee
Cc: Boeing Employees
Boeing Employees Subject: Re: !!! Important Help Needed!!!EASA RSAT/RCAS ECD dates
We met with EASA this morning. Based on conversations with ast week and his review of the FAA IP, does not believe EASA will issue a CRI for differences to the FAA cert basis for 91

RSAT/RCAS . He did indicate the a 'cover' CRI would be required.

nt from my BlackBerry 10 smartphone.
mt: Boeing Employee nt: Friday, November 13, 2015 6:43 PM Boeing Employee
Boeing Employees
bject: !!! Important Help Needed!!!EASA RSAT/RCAS ECD dates
ease let us know if you had a chance to talk to EASA team to have an ECD date for us for the meeting with m, or understanding if there will be a spate CRI for ORW and/or RCAS. We would greatly appreciate your help his matter.
ank You,
nonics Management

From: Sent: To: Subject:	6/7/2013 9:13:10	A Language Control of the Control of	eing.com]	ussevm18.cs.boeing.com]
			tification of any p d since 06-JUN-2013	rogress on this item. 21:12:47 (US Pac)
			item info and the n link below or use i	
To view and/	or edit the ITRACS it	em, select this item	number link 37MAXFCI-PI	OR_AI22
	37MAXFCI-PDR_A AS/Speed Trim	122		
M P: E N E	ategory: odel: hase: ffort: eed Date: CD: ext Phase Due:		737 MAX -8 COMPLETE JUL-01-2013	00:00:00
C R	ion Responsibi ompany: esp_1: esp_2:	lity:	Boeing	
when	what	who	(by who	when added/updated) (US Pacific Time)
6/7/13 Me 1) GTTA 1 type func 2) If we and train 3) Treat 4) Extern 5) Intern 6) Work w acceptabl 7) Make s	etion. emphasize MCAS sing impact. as an addition ally we would ally continue with AR on cert.	is a new fund to Speed Trim communicate it using the acro ification pers	ction there may be m. t is an addition to onym MCAS (within v spective to ensure	ariable names etc).
continue still con	to use the MCA sidering MCAS	S nomenclature to be an addit	e internally (varia tion to the Speed T	provided that we can ble names, etc) while rim function. This will wing additional work due

to training impacts and maintenance manual expansions.

From:	@boeing.com>
To:	Boeing Employees
Sent:	5/23/2018 1:49:51 PM
Subject:	Conversation with Boeing Employee
Cue Darth Vader 21:12: Somebody's hea	
Now the TERR F	AIL [also TRU issue] has occurred - not going well for them when the blame game starts to be played
None 121:14:	
	21:14:
Announce of the second	voodoo?
21:14: Two motion failur	es due to one of the door interlocks tripping4
Face Continues and Continues and Continues.	e probably sabotaged it
	21:16:
Well, I told them	
21:17:	best not be their fault
It looks like they	didn't listen
I'm just not hope Whining about the But this is what h	ul - the FAA inspector was briefed by and was negative from the get go and number of DRs, not Boeing 'quality' etc appens when people fold when they should stand firm - integrity should not be cast aside when pressur s are the 'intermittent' ones I said could kill us
	21:20:
	wouldn't ever happen during eval g the FAA on the Binary, surely
	ng to get their first NQT/unacceptable but this will be blamed on TRU integration
And I don't disag	21:21: ree with the inspector at all: 115 declared DRs is unacceptable
21:21:	ee with the hispector at all. 110 declared DNs is thacceptable
	fully aware of which issues reside with whom?
And I'm accuming	21:21:
21:21:	g we didn't declare any of the major issues he's finding
98 it got to	
	21:22:
	ehid 25 in "transit" between Binary and TRU
21:22: I agree - this is w	rhat I said to and which is why I said it shouldn't go ahead. There was no need to take this risk give
there is no trainin	
	21:22:
Worse	w likely LIK CAA went extend LCAV
Where there is tr	y likely UK CAA won't extend LGW aining
21:23:	
Or CAAS/EASA	n Singapore - the house of cards is starting to topple
The house of car	F 21:23: ds built by SMS
The house of car	95

ı	21:24:
	Sadly, a part of which I am
1	ž1:27:
	SMS PM
	21:28:
	So much of the brown stuff is going to be thrown that I don't think anyone will be safe
1	21:29:
	No doubt
	Wanna come to Fleet Care?
	21:30:
	Yep - can't work for any longer. He doesn't get it
j	21:37:
	Should have hired you as the SPM instead of

From:	@boeing.com>
To:	Boeing Employees
Sent:	5/15/2018 12:09:52 PM
Subject:	Conversation with Boeing Employee
how I need to see	17:37:
	tch you before this meeting
17:37:	TRB is going nowhere
17:28 Connected to	@boeing.com).
17:48 Call with	@boeing.com). @boeing.com) has ended. Duration: 00:09:58
17:46 Call With	19:14:
Laures now is th	iii:i4: ne time to speak to any other issues that haven't bene mentioned
19:14:	te time to speak to any other issues that haven't belie mentioned
They have all be	en touched upon
They have an be-	19:14:
ok	
19:22:	
Thanks be	etter put than I
	19:39:
anything siad her	re change your opionion?
19:40:	
Not really - they	are ploughing forward regardless of the danger, failing to appreciate the implication of Boeing failing to
	device running the Boeing Binary
	o appreciate that a delay would be less costly than the incurred costs for sustaining this, particularly as
	ed to be changed immediately.
Are they swaying	g your opinion? It all sounds plausible on face value but one slight error would compromise everything. 19:43:
	inswer is it's not ready. I think we could get through it, but we'd be doing it just to save face. The biggest FAA can't come back for 3 months it risks the program.
There is no press year and both device which fort weeks ago	sing need for the device to be qualified at this point so why push our luck - we fluked 4 qualifications last and I had to compromise integrity during the qualifications. We left the campuses with a poor quality tunately in 3 campuses went unused. 3 campuses only got to the same standard sustainment-wise two
	ning a load that is >7 months old
device	ifferent and given we need TRU to fix things, how will they cope given that they are struggling with the and have our #5 IPA coming up.
	the resources or bandwidth to deal with 6 different device QTGs going on at the same time
	ook 6 hours to review the DRs last night speaks volumes to its readiness
time consuming	remove the projectors, reclamp the lenses, refit them and realign them thereafter - that is going to be
Even if it is qualit	fied, how do we expect to turn around 7 day fixes ifis en-route to Singapore?
19:57:	ned, new do we expect to turn around r day ince in the many is enrique to onigapore:
Lancas	ty isn't high enough
5-3	
Thought so	

From:	@boeing.com>
To:	Boeing Employees
Sent:	4/8/2018 8:10:13 AM
Subject:	Testing of TP 2.3.57 / Binary 3.19.4.0a
	15:36:
	or definitely looks worse than it did before
15:37:	at any flying A
Thought it was ju	ing it do that previously either - it was repeatable though
1 don't recail seei	15:37:
It pitched you into	re-re-restant.
15:37:) a stall
Yes	
103	15:37:
It was never any	where near that bad
	ou pitched down it followed you
	he pitch attitude too much
15:38:	
Generally happer	ns when asked to fly at 45 degrees nose up - initially I tried to follow it religiously but then thought I'd be a
	inputs as it seemed like the FD was changed to within +/1 degree of the aircraft attitude
-	ieve how bad it was - the first altitude on the route was 2000' and it blew through that by about 500'
before even com	manding a descent
	15:40:
	ying to fix that for over 6 months
15:40:	
Will go back to th	ne training [iLC load] and see what it does
L	15:40:
	his will get fixed next week
p-1	ner" pilots can probably sign this off as no training effect
15:40:	
	ice the FD commanding a descent during VNAV acceleration S/E - will see if you can do that when you
arrive No issue whatsoe	avor.
IND ISSUE WHATSUE	······································
We'll look at it ne	i15:40:
	that 125' issue too
The same and the same of the s	I hope I get hit by a bus between now and then, really don't want to be there
15:41:	,
k	pout that last night
r	15:41:
What's his take?	
15:42:	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	e says he will back you and fall on his sword before you take a hit
Time will tell	
	sed to TRU today but no information passed to myself,or phonedlast night who
carried the phone	e to the TRU engineer.
	5:43:
	to be quiet, talk a back seat approach in meetings, and only talk specifics and metrics
T-	y? I thought it was every week, and the sprint closes today so the new binary should be released
tomorrow, right?	
I-Foy, Neil 15:45:	
Don't know why -	it has a new engine model with updated oil temperature model - I haven't looked at it yet as TRU are

testing but will try again. Don't think it was tested as TRU asked for the QTG results and didn't receive anything Gustavsson (US), Patrik H 15:46:

You should have been on the call yesterday to hear that. "physics based"	
15:46:	
Will be interesting	
15:47:	
I will make sure that we get the data as to how many sprint 1 issues were offered to us, and how many were	rejected
We need to put up real numbers	rojootou.
You, me, and saying it like it is doesn't work. It just doesn't stick with people. Hard numbers will hopefu	lly do it
If not, then we are truly screwed	ily do it.
15:49:	
I'm looking atsprint 1 list and as far as I can see only 26 of the 69 issues are closed	
And that is with the updates from yesterday	
is worried that everything will be downgraded to P4 - I said that you and I wouldn't tolerate that. He agree	∌a
Will be interesting to see if he backs up talk with action	
15:50:	
I think they mean close as it is offered to be checked, for the purpose of the sprint. I'll give them that, but that	is why we
need to check rejection rate too	
15:50:	
I don't consider offered, I only look at what I have closed - Sprint 1 is over but < 50% was completed	
15:51:	
I hope he will, but ultimately he works for who suggested that in the meeting yesterday	
That is a terrible rate	
15:51:	
harmon and a second	
Yup	
15:51:	
That needs to be addressed next week	
I-Foy, Neil 15:51:	
There are several QTG issues that could be closed by wants further discussion	
15:52:	
Ok, that may help a little	
15:53:	
But still not the big-ticket items such as FUEL FLOW etc.	
i15:53:	
They can downgrade to P4, but we still have to disclose anything with a flight deck effect on the F&S	
15:53:	
Am opening the IAN/FAC issues in DRDB also so that they don't get papered over	
15:53:	
That's a good idea	
]15:54:	
Nope - if it is visible on the flight deck, I won't downgrade it	
15:55:	
I'm with you, but they can do it behind our back and hope to get away with it. said explicitly that the	re are other
pilots who have a say on if it has a training effect	c are offici
15:56:	
Andreas and the second	affan in before the
Oh yes - there are plenty of Yaeger wannabes out there but very few who I trust. It will be and I will not	allow nim to
do it. If I need to, I'll email or send the full list to EASA/UK CAA	
15:56:	
Hopefully will support us.	
15:57:	
I think he has to otherwise, is position is untenable.	
15:57:	
Anyway, I got up for the morning call only to find it was not on. I will go and do some useful stuff. Try not to the	ink about the
shit show	init about tho
I'll probably be on later to see how things are going	
115:57:	
harmone on the control of the contro	
Good for you! Enjoy your time with your family and safe travels tomorrow	
15:58:	
Thanks see you soon	

ok, well I am looking forward to testing this new "physics based" engine model

From:	@boeing.com>
To:	Boeing Employees
Sent:	3/28/2018 8:21:29 AM
Subject:	Conversation with Boeing Employee
15:00:	
How you feeling?	
not had running o	15:01: at slightly slower speed than normal and a bit sore still!
15:01:	at slightly slower speed than normal and a bit sore still.
	a terrible shock - do the doctor's have any idea what caused it?
	15:02:
	rrely the best outcome is they don't, and that it remains a one-off!
[15:02:	
Ergghhh - not a g	ood response
V	MS in SMO or Campus - LGW has a lot of DRs that insufficient information is provided - they may
become global bu	ut the instructors aren't helping with the brevity of their responses
	will be transferred to the campus closer to qualification but the plan is to have much of it resolved in the
next 3 sprints	15:42:
I am hoping we c	an 'hit' the instructors at LGW via a couple of ways - the updated DR process I'm writing with more info
on what is needed	d for raising DRs, plus some separate things that came up with FT here at LGW where we'll be having a
	them! Understand totally about TDMS, ECDs etc - it was us that arrived at the solution of not tagging the
against the get-to	device if not resolved! - I'm just trying to figure out where to get the most 'objective' picture of progress
15:43:	- groon plan.
SMO is a good p	lace for the outstanding issues - the Miami device has very few device specific issues due to low usage
[15:45:
	take it you are fed up with being in MIA totally now? Are you leaving MIA because of the 30 day thing?
15:46:	up with Miami. I'm fed up with the meetings that include countless managers who have no understanding
	e simulator or the problems that will arise. Everybody is investing more time in blaming others that actually
fixing the problem	n in the state of
	s of spreadsheets flying around and none of the data is in sync - nobody questions on the IPT why
to manipulate per	CDs are not included in sim support metrics - how many are outstanding 5, 10, 500? It is masking figures reption
	s how SDSRs requesting assistance can be closed with the comment "this is a TRU integration issue" -
FMC rehost etc. i	is a grey box provided by Boeing as part of the BSP
Last that his hus	15:49:
	t I also agree withithat there has been bit of a mind-shift in the past couple of weeks towards actually g stuff instead of passing the buck. Is it too little too late? - who knows at present!? Will be in MIA during
the w/c 23rd Apri	
15:49:	
Audit or conferen	
	ng before then I believe FAA is 20th April
	15:51:
meeting with the	FAA in ATL, then a verification audit visit to MIA in the 2nd half of the week
15:51:	
OK Thought you were	en't meant to travel
rnought you were	en't meant to travel 15:53:
I'm OK to flv. I ius	st had to cancel Shanghai as I was due to depart the day after I left hospital and they signed me off work
for the week!	100

-	15:53:
	Oh ok - that's good
1	15:56:
	I'd be really screwed if I couldn't fly! It's bad enough not being able to drive for 6 months!!
	15:56:
- 01	I bet - welcome to my world :)
	16:04:
	you chose it though!
	16:09:
•	True
	You got me there

From:	@boeing.com>
To:	Boeing Employees
Sent:	2/8/2018 8:25:29 PM
Subject:	Conversation with Boeing Employee
ļos	3:33:
l feel like such a su 103:36:	cker
me too - i/o seems	to be the problem at lgw - not the switch i thought
	3:36:
interestgin	
*interesting	
	3:40:
Clearly wouldn't ha	ve guessed that.
]03:40:	
nor i but it confims	
F 03	3:41:
Great!	
TRU will be there a	1 09.00
D3:41:	
ok	
	3:41:
	a really honest assessment from you: are TRU really doing their job fully, and by extension, am I?
and the second s	now, and don't ever have to stop
	re I'm adding value, not just taking up space (especially since I'm clearly an awful FO)
03:43:	
	eed to ask such silly questions. You are doing a better job than the PMs - if I ask you something, I get I need. If I ask SMS PM, I get buggered with a banana
]03	3:43:
That's a low bar, m	ate.
	it's a fantastically low bar
	ere are (at least) 97 DRs
and SIN MQTG is	
not to mention all th	
	has been AOG for damn near a week
03:44:	liceransized shootic dust medienal had beed wereling beneat apon to criticions found there is a lett had
	lisorganized, chaotic, dysfunctional, but hard working, honest, open to criticism [and there is a lot] but r TDMs but are cheaper and have to date, not failed to meet a major milestone
یم Thank you	3:44:
	stop providing honest feedback. I don't trust many people in Boeing, and like I said, I really just want to
be sure to add valu	
	I miss my family so much when I spend so much time away.
	much I appreciate your presence on this program. I've been trying to find a way to get you on the 777X
	ow how else we would succeed.
03:46:	
There are 180 DRs	on LGW and that is the lead ship - the hardware is buggered I believe but because I promoted a
	easier to blame that than fix the issue. That is due to misreporting by a campus that I held in regard but
then lost the rose-t	
You are only working	ng so hard because you are trying to support your family - it doesn't seem like it to them and probably

not to you right now, but in a few years, they will realise that whilst it seems you are abandoning them, they have each other whilst you are away - you don't have anyone whilst on the road - and I'm sure the Swede and I barely register on the

The money you are working so hard to gain and the sacrifices you are making will pave the way for your children to go through college, for your wife to have the vacations and the things she needs 102

These things cannot be underesitmated

03:49:	
Thank you, my friend.	
I don't know how to refer to the very, very few of us on the program who are interested of	only in truth
But it's mostly depressing that it's so few	
03:50:	
Honesty is the only way in this job - integrity when lives are on the line on the aircraft and	I training programs shouldn't be
taken with a pinch of salt. Would you put your family on a MAX simulator trained aircraft?	- · · · · · · · · · · · · · · · · · · ·
I wouldn't	E.
p3:51:	
No	
03:52:	
is probably the best person to talk to if you have reservations - mine are grave for you or being thrown under the bus. I do not believe at this rate the Level D dea have Boeing taken TRUs comments regarding the sound package? That is a critical Level the wayside because we have asked TRU to tune to a poor quality data package	ndline is achievable. How seriously
D3:53:	
Our arrogance is our demise.	
I really like but the arrogance exhibited about the quality of the data package is a	ppalling.
I'm sure you, me, and will all be sacked if we keep our position. I'm not kidding - if vote "no go" on the MIA iLC	I could go back a year, I would
03:56:	
Me too but it wouldn't have made a difference - we can only draw that line in the sand an call over the weekend to have a frank discussion as to where we are	id let our feelings be known. I will
I like simulators and have enjoyed tremendously working on this program - it is only a job dispensable when we it comes to it.	after all and we are all
I'd rather not get fired but my integrity means more to me than a pay cheque	
03:57:	
I agree	
I'm disposed to trust my gut and press my integrity more than I ever have	
If there is anything I can do to help you more here, please don't hesitate to ask.	
	structors who use the device
At this stage, what else do we have - perhaps the Go-No Go should include the LGW ins	structors who use the device
03:59:	
If you get a "no" from TRU, or even hesitation, let me know immediately.	
03:59:	
You know me - if I think I can get it, I'll ask for it. I'm not shy in that regard	
Let me know if I am failing to do what I need to in any way	
03:59:	
Not in the slightest.	
You and I can fix this program	
I really believe that	
It's what keeps me floating	
04:01:	
I'm sinking to be honest	
04:01:	
I know - I'm trying to keep bring you and back to the surface	
04:10:	
You OK? No problems at home? Make sure you spend some time at home this time before	re you go away again
	ne you go away again
04:11:	
No, no problems at home	
I just have these swings	
04:12:	14.00 ×
Get some rest - don't worry about waking up early tomorrow to take me in. I can catch a	ı taxi
04:12:	
No, no	
I'll be ready at the car at 6.15	
Best part of the day, really	
04:12:	
Nahh - now I know you are kidding!	103

04:12:
No, seriously
)4:15:
Car at 6.15
It's ON
04:16:
Manyana
LGW:
Autopilot stab trim cut out switch is toggling
Also Copilot Yoke Autopilot Disengage is doing the same thing
04:18:
Lovely
04:18:
Wonder what that might be in hardware
04:19:
Great question, though I have had a concern about their overall wiring and general EE skills for over a year.
04:20:
Indeed - at Gatwick stays still believes it to be software
04:20:
Well, TRU will have someone on site shortly who's actually intelligent
So we'll see then
04:21:
hope it isn't software - my bad if it is
04:21:
meh
04:21:
Can't see how it could have effed up though
F 04:21:
and I all assessed the same
I'm going to shutdown, elsewise I'll stay up all night.
Get some sleep, please
04:22:
You too - don't worry about me. Am an insomniac at the best of times and Aliens is on the TV
04:22:
LoL

From:	Boeing Employee
To:	
Sent: Subject:	4/24/2018 4:02:27 PM RE: Updated QTG
	N.E. Spanisa 2.19
	
I agree with from the Boei	you entirely and agree with the whole failure to plan this program properly ng side.
no support - swapping some	ek and tired of being put in the middle of this with pathetically week PMs and Singapore has done nothing except break the simulator - the PM here is now form of isolator in the cockpit for reasons unknown - he has no training on the thinks he knows what he is doing.
At this rate, - I have had	I will not be returning to Miami this trip or coming out again to either site enough.
Original	Message
From: Sent: 24 Apri	T 2018 23:33
To:	@boeing.com>
Subject: RE:	opdated QIG
J,	
schedule simp the circumsta engineering s 2017 despite conservative	ect result of a pour plan which I objected to repeatedly since day 1. The aly did not permit for any corrective actions to be taken; particularly given inces of the program and for a device which is clearly undermaintained. No support was ever planned in Singapore as per the change order executed in fall my objections when my initial proposals were refused for being "overly". Moreover, given the need to extend residence in Miami, the Singapore as always going to be small and take its cues from Miami. This was discussed bon.
caused recent	of the HW issues on MAX 2 were previously reported and a number of them were ly by the campus itself. I am doing my best to mitigate the situation (as I but there is a limit to what can be accomplished in 3 days.
submit the sa be addressed there is a li	, we will do our best to accommodate however the understanding was always to me document as in Miami run on the same load. Whatever deficiencies exist will in Miami for both campuses as required prior to the qualifications but again mit to what can be done in 36-48 hours. Moreover it seems that we have sound tend with as well which needs to be our primary focus right now.
	rised by the outcome of the F&S. Nothing much has changed in 4 days so I ing the F&S in Singapore to be any better than that of Miami. If anything it's e I imagine.
We will conti	nue to work out out issues but a lot of this is beyond our control.
	ilding a new load this evening and offering another 6-8 DRs. I will forward otes shortly.
Sent from mob	ile device.
(=,=,=,=,=,=,=,=,=,=,=,=,=,=,=,=,=,=,=,	
	\$

From: Qboeing.com> Sent: Tuesday, April 24, 2018 9:27:53 PM To: Subject: RE: Updated QTG
I let it slide for the Miami qualification and put my name to something I didn't have the opportunity to check thoroughly due to time constraints. I do not see why this cannot be corrected now. I wished I had looked at the motion buffet tests further - the resource data has no bearing on the VDR in several cases and I would like to know why - to my knowledge, the data did not change at the last minute so I want to know why it differs. I had previously asked to contact regarding the IQTG latency methodology as I had concerns - Jon is likely to reject these tests outright.
I also want answers to all of questions before Thursday morning Singapore time so that I can try and discuss them with him.
Given the current state of the device, QTG, and the lack of engineering resources on site, I cannot conscionably allow the device to be put forward for qualification and certainly will not be permitting the pilot to sign the F & S checklist. Given that there is no other opportunity for doing this, this part of the QTG will not be signed prior to arrival the day prior to qualification.
Attached are the questions I would like answered.
From: Sent: 24 April 2018 15:21 To: @boeing.com> Cc: Subject: RE: Updated QTG
Isn't the document essentially identical to Miami? Or are you saying that we need to insert all of the relevant rationales at this point?
Program Manager TRU Simulation + Training Canada Inc. Email: Office: Mobile:
[TRU_logo_color_horizontal]

Merci de prendre en compte l'environnement avant d'imprimer ce message. Please consider the environment before printing this email.

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of this e-mail, you are hereby notified that any use or dissemination of this e-mail is prohibited. If you have received this e-mail in error, please notify TRU SImulation+Training immediately, and delete this e-mail and all attachments from your computer system.

From: [@boeing.com]
Sent: Tuesday, April 24, 2018 10:18 AM To:
Subject: Updated QTG
Importance: High
Hi
Could you ensure that the Singapore QTG is updated before Friday with all affected closure letters/SDSR responses - I have grave concerns as to whether the campus will submit it at this point in time.
Thanks,
Training & Professional Services
Global Services
Tel
Fax L Booeing.com <mailto: booeing.com=""></mailto:>
Boeing UK Training & Flight Services is a Ltd Company registered in England and Wales
Registered Office: Boeing House, Crawley Business Quarter, Manor Royal, Crawley, RH10 9AD
Company Registration Number: 3802219

From:	Boeing Employee	
To:	Boeing Employee	
Sent:	2/20/2017 7:14:29 AM	
Subject:	RE: 777 ECL COC update request	
So they won't fix anythi	ing just like they don't in LGW, hence the large DR count.	
Makes sense		
Waltes series		
From: Boeing Employ	ee	
Sent: 20 February 201	7 15:14	
Subject: RE: 7	@boeing.com> 77 ECL COC update request	
Yes the holy trinity of sl	lackers	
red the holy timity of of		
From: Boeing Employee		
Sent: 20 February 201	7 15:13	
To:[@boeing.com>	
Subject: RE: 7	77 ECL COC update request	
Oh ok – who is on the o	course?	
From: Boeing Employ	/ee	
Sent: 20 February 201		
To:	@boeing.com>	
Subject: RE: 7	77 ECL COC update request	
I think this hit is the made	tion quatom on marks they have someone coming from MOOC	
I think this bit is the mo	tion system so maybe they have someone coming from MOOG	
From: Boeing Employee		
Sent: 20 February 201	7 15:10	
То:	@boeing.com>	
Subject: RE: 7	77 ECL COC update request	
Don't know who is goin	ig to do the training	
From: Boeing Employ	vee	
Sent: 20 February 201		
To:	@boeing.com>	
L	77 ECL COC update request	
(Lua, Lua, Lua, Lua, Lua, Lua, Lua, Lua,		
They should be in Mian	mi from today for 6 days!	
From: Boeing Employee		
Sent: 20 February 201	7 15:09	
To:	@boeing.com>	
Subject: RE: 7	77 ECL COC update request	108

No - the	y were in	n Holland
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From: Boeing Employee
Sent: 20 February 2017 15:08 To:
To: <u>@boeing.com</u> > Subject: RE: 777 ECL COC update request
Junier Lot 600 aparte request
So have you seen the LGW guys out there for their course?
From: Boeing Employee
Sent: 20 February 2017 12:57
To:
I am certain now that sall bluster and no ability – he hasn't fixed a single thing without calling in multiple people to do his bidding
From: Boeing Employee
Sent: 20 February 2017 12:42
To: @boeing.com>
Subject: RE: 777 ECL COC update request
Will be interesting to see what happens in Singapore then as they are supposedly super thorough.
told me a cracker about asking him to redesign the brake feel on Fri afternoon the week before the Eval! He accidently forgot to hang up and after an expletive laden discussion with his Mrs heard the call drop. then called back to say maybe it wasn't such a good idea so late in the day!
Safe journey home.
From: Boeing Employee
Sent: 20 February 2017 12:22
To: Doeing.com>
Subject: RE: -777 ECL COC update request
Fly home today – having the kitchen replaced on Thursday through to Friday next week L
Amazing what a brown envelope can achieve – it isn't anywhere near as good as it would appear to be reading the report. The FAA were neither thorough nor demanding and failed to write up many issues.
And the lies, the damned lies – I was removed from the simulator for three days in the week leading up to the evaluation on the instructions of a Senior Manager so that certainly individuals could 'tune' with the pilot. The tuning then fouled up multiple QTG tests and was clearly wrong and the pilot was forced to sign a SoC that was clearly based on a lie. Another Senior Manager was also screamed at in a temper tantrum by said individual and also barred from the simulator. The Go/No Go decision comes along and then aforementioned Senior Manager and Senior Engineer then state to a cast of 30 – "we have to trust the decision of on Site".
Needless to say, I tore straight into and about the lies and the unethical/deceitful nature of this comment as it meant I was set up to take the blame should it have gone wrong.
It is a joke and nothing more – whilst 9 PMs were on Site last week during the evaluation, it was for a jolly/free meal. One PM even said that given that we are under budget, we should hire a yacht a sail around Miami harbour to celebrate and even askedto submit the request

Honestly, you wouldn't believe it From: Boeing Employee Sent: 20 February 2017 12:15 To: @boeing.com> Subject: RE: 777 ECL COC update request Cool see my subsequent back track! Are you back yet? I see it passed with some very positive comments so I'm guessing you must have been working your butt off out there. From Boeing Employee Sent: 20 February 2017 12:13 To: @boeing.com> Subject: RE: 777 ECL COC update request No problem – there is nothing you can do to make it work if it believes the engine configuration is wrong From: Boeing Employee Sent: 20 February 2017 11:55 To: @boeing.com> Subject: RE: 777 ECL COC update request Oh – Cheers for the heads up! I did think it was a bit of a strange request as all the engine fail procedures would not work properly. Thanks From: Boeing Employee Sent: 20 February 2017 11:54 To: @boeing.com> - 777 ECL COC update request Subject: RE: It is impossible to use a GE checklist in the RR configuration – it just will not work regardless of whether it is valid or not. From! Boeing Employee Sent: 20 February 2017 09:27 To: A Cc: @boeing.com>: @exchange.boeing.com>; Subject: RE: 777 ECL COC update request

Hello!

Our options going forward are: Use a generic Boeing RR Checklist Or 2) supply a copy of their MODB & MODA2 LSAPS that they load along with the MODA (ECL) Parts for the AIMS2 GE BP17.1 ECL 3) create a custom version of the AIMS1 RR checklist for AIMS 2 BP17 and supply this with the MODB and MODA2 parts. I did go to my colleagues in Seattle with this request but as the checklist is created by the airline they are unable to do anything with these files and they suggested giving you a generic Boeing checklist. Apologies for these issues, Best regards, Simulator Operations Supervisor Boeing Flight Services Gatwick Campus RH10 9AD Tel Mob : Fax + mailto: @boeing.com From: Boeing Employee Sent: 20 February 2017 01:18 To: @boeing.com> - 777 ECL COC update request Hi Tried loading the latest ECL 3114-BFT-001-6A into MODA with the following MODB options: 3166-BFT-004-00 3118-BFT-002-H0 3163-BFT-002-30 3164-BFT-006-00 3165-BFT-007-00 But could not get their ECL to work with any of them MODB options. Regards, Senior Simulator Technician Boeing Flight Services Gatwick Campus

@boeing.com

See below for the reply from my Tech who tried to load the GE checklist over the weekend.



From Sent: 19 February 2017 05:54	
To: <u>@boeing.com</u> > Subject: RE: 777 ECL COC update request	
Hello	
Thanks for information, waiting for update.	
Brgds,	
From: @boeing.com	
Sent: Friday, February 17, 2017 6:42 PM To: Boeing Employee Cc: Boeing Employees Subject: RE: -777 ECL COC update request	
Hello	
We are still having issues getting any of the checklists we have been sent to work. One of the this AIMV2 BP17.1 GE version that you sent over the weekend with all the different MODB have as I believe the MODA part you are sending needs to be compatible with a MODB part ECL. Currently with this checklist fitted we just get a 'Checklist Unavailable' message, see if they could generate an AIMS2 BPV17 version of the RR ECL we previously were see obviously be issues around engine failure drills etc even if we do get the GE checklist to work.	LSAPS that we already It to give a working I did ask Seattle to It as there will
Best regards and I hope to have better news for you next week,	
Simulator Operations Supervisor Boeing Flight Services Gatwick Campus RH10 9AD Tel Mob Fax mailto: @boeing.com	
From: Sent: 14 February 2017 04:56	
To: @boeing.com> Cc: @boeing.com>;	7
	j oeing.com>;[
Subject: 777 ECL COC update request	112

Hello L.,
I recall that our previous ECL (Electronic Checklist) COC files upload was not successful.
We have a simulator trainings scheduled starting 15, March 2017. These trainings absolutely need to be accomplished with our ECL.
Attached ECL files that are compatible with Simulator AIMS-2 v17.1 GE Engines, latest revision (revision 34). In addition, attached the Technical Newsletter.
Please upload simulator and advise if all is running properly.
Regards
Email secured by T Security

From:	Boeing Employee
To:	Boeing Employee
Sent:	6/1/2018 9:24:56 AM
Subject:	RE: MAX Simulator Program
J	
I hear what you're creating this cultu	e saying, so I am willing to be the a-hole here and highlight this and call the Senior Leadership out for re.
	oplier side, someone made our bed so we just got to make the best of it and make sure we don't let the en again else, why waste our time doing an AAR.
want to sit down unacceptable.	with you on Monday and discuss it and then I will let the team know that this type of behavior is
From: Boei	ng Employee
Sent: Friday, Ju	ne 01, 2018 9:20 AM
To:	@boeing.com>
Subject: RE: M	AX Simulator Program
lose its qualifica	nk there's significant risk that the LGW MAX device will not be granted an iLC extension and wil tion by regulatory decision, not ours. Not being granted an extension on that device would have ct for
	ele are voting yes everyone has it in their head meeting schedule is most important because ership pressures and messages. All the messages are about meeting schedule, not delivering

As for why people are voting yes.... everyone has it in their head meeting schedule is most important because that's what Leadership pressures and messages. All the messages are about meeting schedule, not delivering quality. We managers were told names were being taken by senior leadership at the level D Go/NoGo meeting, now referred to internally as the Go/Go meeting. Sometimes there are understandable reasons why we have schedule pressures - such as major impacts to customers. But not always. Take iLC decisions – we had practically no customer training on the device to now. But not looking bad by missing schedule was more important and we missed the opportunity to fix things when there was low impact.

We put ourselves in this position by picking the lowest cost supplier and signing up to impossible schedules. Why did the lowest ranking and most unproven supplier receive the contract? Solely based on bottom dollar. Not just MAX but also the 777X! Supplier management drives all these decisions – yet we can't even keep one person doing the same job in SM for more than 6 months to a year. They don't know this business and those that do don't have the appropriate level of input.

Also, that voting list is full of people voting for their self-interests. Binary was voting yes because 'binary is good'. Sim Support voted yes because 'level D Data package is huge improvement over level C'. New Programs voting yes because they need to make schedule and they believe the device will make it through qualification. Very few people are actually voting understanding the entirety of the decision including customer quality and long term maintainability of the specific device we are accepting. We haven't even fully checked the requirements TRU is supposed to meeting.

I don't know how to fix these things... it's systemic. It's culture. It's the fact that we have a senior leadership team that understand very little about the business and yet are driving us to certain objectives. Its lots of individual groups that aren't working closely and being accountable. It exemplifies the 'lazy B'. Sometimes you have to let things fail big so that everyone can identify a problem... maybe that's what needs to happen rather than just continuing to scrape by.

Best part is we are re-starting this whole thing with the 777X with the same supplier and have signed up to an even more aggressive schedule!

From: Boeing Employee
Sent: Thursday, May 31, 2018 11:25 PM
To: aboeing.com>
Subject: RE: MAX Simulator Program
For the most part I agree. But I have to ask, who has said we had to proceed? Who from leadership had said we had to meet some level of approval on the Singapore device? On the Miami one, I understand (don't agree) why they decided to move forward, but why do we allow this to happen?
I look at who agreed to proceed to level C with EASA on the list and I see a whole slew of people that are not (quote) Leadership yes they voted yes. You and said no, but et.c. etc. said yes. So who drove this to say yes?
I understand your feeling and I want to help address the root problem, but the supplier selection is done. It isn't something we have the luxury of going back and doing over. The Quality of Boeing data packages, okay, how do we fix it? I am not advocating or defending our situation, but I have yet to see someone tell me that we need more resources, etc. etc.
At this point, I am hearing your gripes, acknowledge they have validity, so let's address this.
I am all for saying "NO" to proceeding with any activity with Shanghai or Gatwick Max, so let me know how I should say no. I can cite all the below, but I will immediately be asked, because I would if I heard someone say this, how do we fix it.
So, I'm accepting the responsibility to say "no" but you need to help me address what happens after so that we can get to "yes".
From: Boeing Employee
Sent: Thursday, May 31, 2018 11:13 PM
To: @boeing.com>
Subject: FW: MAX Simulator Program

For reference – this evening the Singapore EASA level D qualification was downgraded to level C as sound objective tests could not pass. It was completely unnecessary, and frankly embarrassing on the part of Boeing and TRU. A lot of the below is down in the weeds but adds depth to a clearly visible problem that we have systemic organizational issues causing us to unnecessarily spend enormous amounts of effort (=\$\$\$) to end up with poor quality products and pat ourselves on the back about it.

It starts from our supplier selection process (or lack of) and continues to how we manage the supplier, the quality and support of Boeing data packages, substandard/non-existant requirements management, lack of resource staffing, lack of the right resources, lack of accountability, and hybrid ownership of programs/projects. It ends with our repeated decisions to push products into the field to meet often arbitrary schedules despite suppliers not delivering on commitments and clear quality concerns. At any point on this program (IPA, iIC, leveID) we could have stopped this by standing firm on a commitment to quality until the program was where it need to be. However we continued to bend to leadership pressure and allowed ourselves to shoot for the lowest possible bar of 'We think the regulator will qualify the device'.

To:[@boeing.com>;	
@boeing		
Cc:	@boeing.com>	
Subject: MAX Simulator Pro	gram	

Would it be possible to arrange for some form of after action review to determine what is causing the MAX simulator program to press on regardless of the risks to the Boeing brand? Any such review should consider the systemic failures in leadership, preparation, and communication that are squandering thousands of dollars of Boeing finances and impacting the critical functions performed by the Flight Technical and Safety pilots for whom a simulator acceptance/testing is a minor part.

Consider the following, in the last 30 days:

- 1) Miami FAA Level D qualification was scheduled for March it was achieved in late May.
 - a) Between these dates 100-150 DRs alone were closed.
 - b) The Boeing VDR has had more than 30 tests updated since release resulting from SDSRs
 - c) The sound data package released to industry was unacceptable
 - functions and Subjective testing was only signed in mid-May on the third attempt and even then, critical issues were downgraded
 - e) 115 DRs were declared to the regulator at the time of qualification [100 others exists]
 - f) The air conditioning issues identified in August last year were not resolved until the last minute resulting in TRU charging Boeing for multiple visits to site to retune the sound
 - g) Temporary air conditioning blower fans were reluctantly purchased to boost airflow and Boeing are now having to purchase a CVAC from TRU which will require setup, and retuning of the sounds and another visit to assess subjectively and objectively.
 - h) The campus failed to provide the correct information to the regulator.
 - i) The campus failed to communicate the correct qualification dates to anyone on the MAX program resulting in airfare change fees of up to \$5000. A result of this delayed travel to Singapore by 1 day. Subsequent and unpredictable ATC delays further delayed travel by 18 hours.
 - j) The regulator was extremely upset to be asked to qualify a device with so many declared defects and documented this in their report. Worse, they felt that Boeing did not have a handle on the DRs and took the decision to transfer TDMS DRs into their report to permit them to stipulate time frames for rectification
- 2) Singapore EASA Level D / CAAS Level VII Qualification
 - a) Miscommunication regarding F&S dates resulted in _____having to change flights twice
 - b) Fortuitously, the CAAS qualification dates slipped by 2 weeks. Had the original schedule been adhered to, the travel delays documented in item i) above resulted in the acceptance team arriving at 0030 on the morning of day 1 of the qualification. There would have been no time to complete F&S checks
 - c) The F&S checks were not signed at the time of QTG submittal due to there being too many hardware issues on the device. These had been known to exist for 2 weeks prior to the commencement of F&S testing but nothing had been done to resolve them until the issue was escalated.
 - d) Sound tests were submitted 30 days prior to qualification with failing results. Nothing was done to resolve the sound problems until the issue was escalated on day 1 of what would have been the CAAS qualification
 - e) Sound was only made to be marginally acceptable for Level C qualification on day 4 of the planned qualification. Until then, the device would have been limited to Level IV under CAAS – a downgrade from Level VII
 - f) Sound still does not pass objectively and is ermains obviously different to the Miami device on day 5 of the planned qualification. Only now are the campus taking note of the fact that it may be a facility issue [and I found leaking air lines behind two of the devices which contribute to the ambient simulator hall noise]. TRU could not get the tests to pass the campus believe that this may be associated with the CVAC or compressor on the adjacent Mechtronix NG but the failing results were

- obtained with that device completely powered off.
- g) Nothing still has been done to satisfactorily resolve the sound issue. TRU did not send an engineer when requested, nor did they send hardware engineers they were already in Singapore to work at the Airbus training centre. At this point, there is no requirement for ______to be on site, particularly when his group is already stretched due to customer commitments and accident investigations
- h) The Go / No Go decision to proceed with qualification was based on schedule, nothing more. I do not believe the device will fail Level C qualification, but the fact that we are going for Level C is a failure in itself [although Boeing will not consider it so]. We will be left with a QTG that needs to be updated, a device with 160 DRs on it, and the inconvenience of having to reschedule and finance another special evaluation.
- i) Last year, in an inferior load, DR manipulation resulted in the declaration of 42 issues. This year, in an improved load, we have already declared double that number nobody has considered how this will be explained. Plausible arguments such as "we have tested this using every level of documentation available" will be presented, however, there is no rebuttal for the regulator counterpoint stating "why did you not use these before".
- j) The Singapore campus has documented problems with the quality of support they are provided with by TRU this is not likely to change
- k) The Singapore campus did not come close to meeting sustainment goals during the iLC process. Do we believe they will achieve this during Level D?
- I) The Industry will now know that Boeing failed to qualify one of its own devices with its own product to Level D standard – given the anti-binary sentiment in the industry, how will the impact of this be perceived particularly given the failure is not Binary related?
- m) Level C qualification with the number of outstanding issues is not guaranteed

We now have to determine how to approach the UK CAA for an extension to the iLC qualification – they will have been contacted by EASA to indicate that there are significant numbers of outstanding issues in the Level C/D load – their experience will lead them to appreciate that there must be considerably more in the iLC load and they will have to seriously look at whether the device is in an acceptable condition to permit the certificate to be extended [note the decision was taken to not declare all issues across all devices even when we knew them all to be impacted because the Device Managers objected so the current list in TDMS is misleading].

Time and time again, we are inundated with Boeing material specifying quality is key – this clearly is not the case or driving factor in any of the decisions that are made. Lessons learned continually say we should not accept inferior quality products because there is an unnecessary and costly overhead associated with doing so, but here we are, immediately prior to qualification, dealing with an issue that was documented weeks ago, and now accepting a reduced qualification level [read failed] as a result. Nobody seemed to consider in the meeting today that a qualified device that goes unused is almost as useless as non-qualified device. Given that the 737-8 is a common type rating, why would a customer pay the elevated price to use a MAX simulator when there are dozens of Level D qualified 737 devices across 6 continents? Has this lesson not been learned in the MAX classroom?

Until an open and frank discussion takes place, the same errors, wasted opportunities, and financial losses will continually be absorbed.

Regards,	
<u></u>	
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Tel Fax	
	@boeing.com aming & Flight Services is a Ltd Company registered in England and Wales ffice: Boeing House, Crawley Business Quarter, Manor Royal, Crawley,RH10 9AD
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